AVYCON

HD-TVI 1080P/720P/960H DVR

T900 Series

User Manual

Contents

1 Software Introduction 1
1.1 Summary 1
1.2 Operation Environment 1
1.3 Install and Uninstall 2
1.3.1 Install the Software 2
1.3.2 Uninstall the Software 4
2 Login Software 5
2.1 Login 5
2.2 Control Panel Instruction 6
3 Device Management 8
3.1 Add Device 8
3.2 View, Change or Delete Device 9
3.3 Area and Camera Management 14
3.3.1 Area Management 15
3.3.2 Camera Management 15
4 Storage Server Management 21
4.1 Create Storage Server 21
4.2 Change or Delete the Information of Storage Server 21
5 Group and Scheme Setting 29
5.1 Camera Dwell Group 29
5.1.1 Create, Change or Delete the Camera Group 29
5.1.2 Add or Remove the Camera Group 29
5.2 Group Dwell Scheme 30
5.2.1 Create Scheme 30
5.2.2 Change and Delete Group Dwell Scheme 30
6 Live Preview 31
6.1 Preview 32
6.1.1 Monitory Point Preview 32
6.1.2 Stop Preview 32
6.2 Dwell Preview 33
6.2.1 Group Dwell Preview 33
6.2.2 Scheme Dwell Preview 34
6.3 Preview Control 34
6.4 Snap 35
6.4.1 Snap 35
6.4.2 Snap Number 35
6.4.3 Record and Snap Path 35
6.5 Multi-screen to Preview 35
6.6 Talk and Broadcast 36
6.6.1 Talk 36
6.6.2 Broadcast 37
6.7 PTZ Control 37
6.7.1 Parameter Configuration of PTZ 37
6.7.2 PTZ control 37
7 Record Management 38
7.1 Manual Record 38
7.2 Schedule Record 38
7.3 Motion Detection Record 39
7.4 Sensor Alarm Record 39
7.5 Storage Server Record 40
7.6 Set Record Partition 40
8 Playback Management 41
8.1 Playback 43
8.1.1 Playback Synchronously 43
8.1.2 Playback Asynchronously 43
8.1.3 Playback by Setting Time 44
8.1.4 Playback by Searching Event 44
8.1.5 Playback by Record Player 45

8.2 Snap When Playback 45
8.3 Clip and Backup Record 45
8.3.1 Clip and Backup Record 45
8.3.2 Backup Path Configuration 45
8.4 Download Record By Time Search 45
8.5 Download Record by Event Search 46
8.6 View the Progress of Downloading 46
9 Alarm Management 47
9.1 Sensor Alarm 47
9.2 Motion Detection Alarm 48
9.3 Video Loss Alarm 49
9.4 Alarm Preview 50
9.4.1 Alarm Preview Configuration 50
9.4.2 Alarm Preview 51
10 E-Map 52
10.1 Create map 52
10.2 Modify or Delete Map, Hotspot and Hotzone 53
10.2.1 Change or Delete Map 53
10.2.2 Add, Change and Delete Hotzone 53
10.2.3 Add, Change and Delete Hotspot 54
10.3 E-map Monitoring Settings 54
10.4 E-map live preview 54
11 Local Log 57
11.1 Search log 57
11.2 Log Maintenance 58
11.3 Export 58
12 User Management 59
12.1 Create a Resource with the Default Permission 59
12.2 Create, Change and Delete Users 59
12.3 Account Right Configuration 60
13 Basic 62
13.1 System Startup and Maintenance 62
13.2 Backup and Restore 62
13.2.1 Backup System Configuration Data 63
13.2.2 Restore System Configuration Data 63
13.3 Manually Trigger the Alarm Output 63
13.4 Video Display Settings 63
13.5 Batch Timing For Devices 63
14 Web Client Login 64
14.1 Login 64
14.1.1 Change the Port of Web Client 64
14.1.2 LAN Login 64
14.1.3 WAN Login 64
14.1.4 The Download and Installation of Plugins 65
14.2 Live Preview 66
14.3 Record Playback 69

1 Software Introduction

In this chapter, you will read a detailed introduction of the operation environment, install & uninstall of this software.

1.1 Summary

Network Video Monitoring System (hereinafter referred to as "AVR-T900") is a monitoring client which is specially designed for network video surveillance. After the network video monitoring system is well built, the super administrator can control the video input signal devices, such as cameras, domes, etc., to achieve live monitor, video record and backup by configuring the video parameters and viewing the live in the control panel. Users can choose the menu to control video surveillance system in the control panel.

The main functions of the control panel include live view, playback, E-map, device management, group and scheme settings, user account and permission, local log, basic configuration and alarm management.

1.2 Operation Environment

1）Operating System Requirement:

System	Recommendation
Windows XP	Windows XP professional version (32bit), direct 9.0c. Microsoft YaHei front need to be installed.
Windows 7	Windows 7 (2bit/64bit，support SP1)，Direct 11.0 or above
Windows8	Windows 8 (32bit/64bit)，Direct 11.0 or above

2）Hardware Requirement：

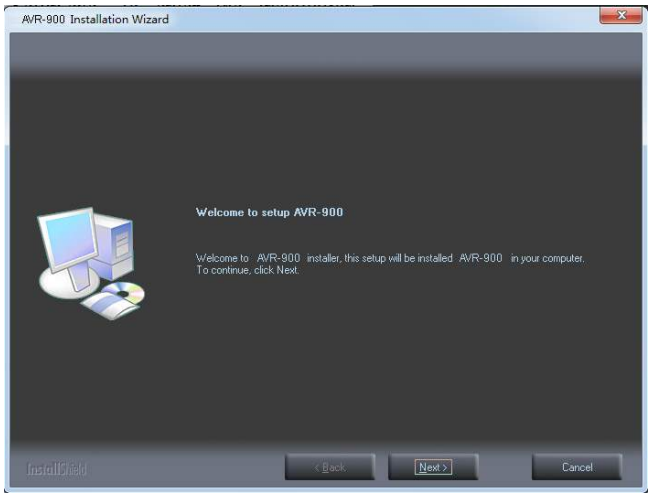
Item	Recommendation
CPU	Intel Core Dou，2.6GHz or higher
Memory	2GB or above
HDD	250GB or above
Graphics Card	Independent graphics card; 512M graphics memory or higher

3）When running AVR-T900, you need to ensure that all the running antivirus software and firewall are closed, so that the program of the AVR-T900 can be installed.

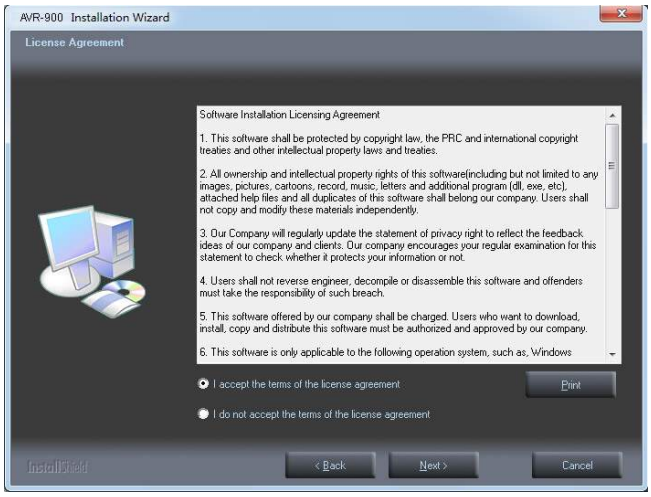
1.3 Install and Uninstall

1.3.1 Install the Software

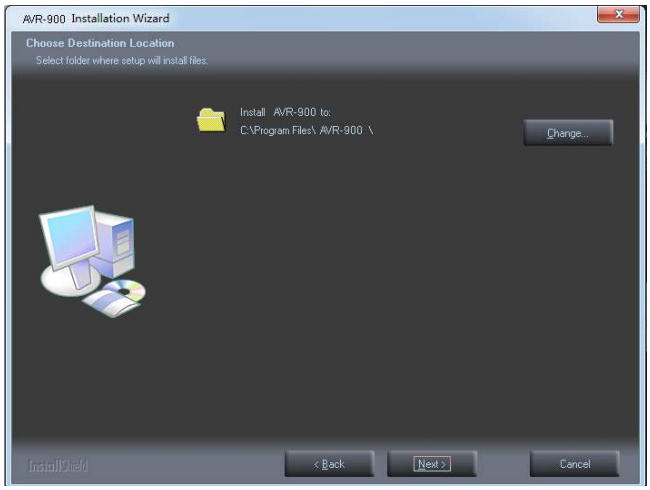
Double click “setup.exe” to enter the Installation Wizard. Click【Next】to install.


AVR-900 Installation Wizard
Welcome to setup AVR-900
Welcome to AVR-900 installer, this setup will be installed AVR-900 in your computer.
To continue, click Next.
InstallShield
< Back
Next >
Cancel

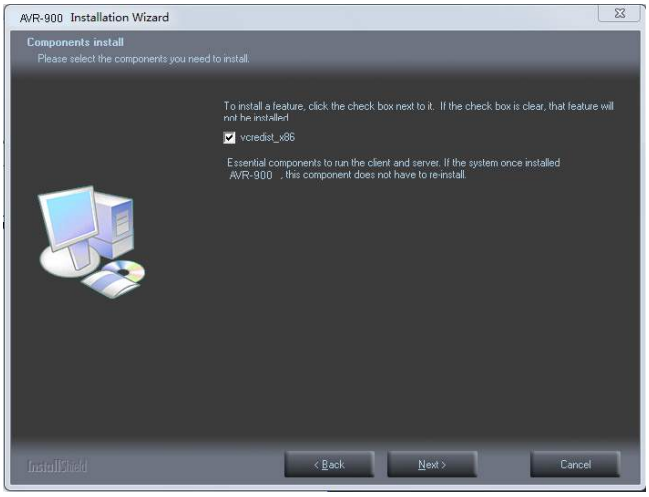
Select “I accept the terms of the license agreement” and click 【Next】to continue.


AVR-900 Installation Wizard
License Agreement
Software Installation Licensing Agreement
1. This software shall be protected by copyright law, the PRC and international copyright treaties and other intellectual property laws and treaties.
2. All ownership and intellectual property rights of this software(including but not limited to any images, pictures, cartoons, record, music, letters and additional program (dll, exe, etc), attached help files and all duplicates of this software shall belong our company. Users shall not copy and modify these materials independently.
3. Our Company will regularly update the statement of privacy right to reflect the feedback ideas of our company and clients. Our company encourages your regular examination for this statement to check whether it protects your information or not.
4. Users shall not reverse engineer, decompile or disassemble this software and offenders must take the responsibility of such breach.
5. This software offered by our company shall be charged. Users who want to download, install, copy and distribute this software must be authorized and approved by our company.
6. This software is only applicable to the following operation system, such as, Windows
I accept the terms of the license agreement
I do not accept the terms of the license agreement
Print
InstallShield
< Back
Next >
Cancel

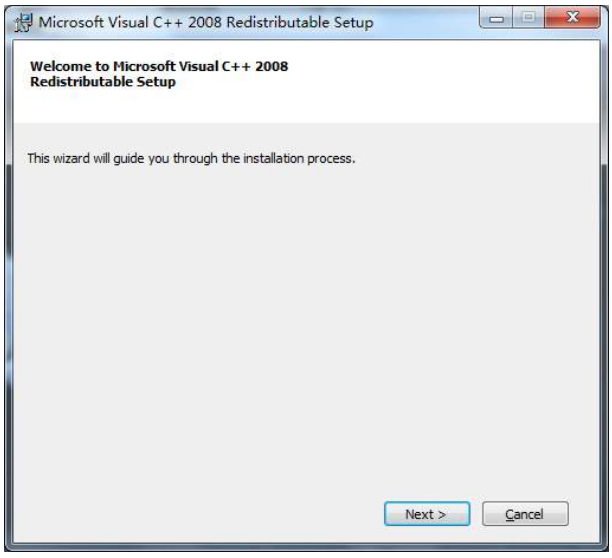
Click【Change】button to change the directory to save the program files. Click【Next】to continue.

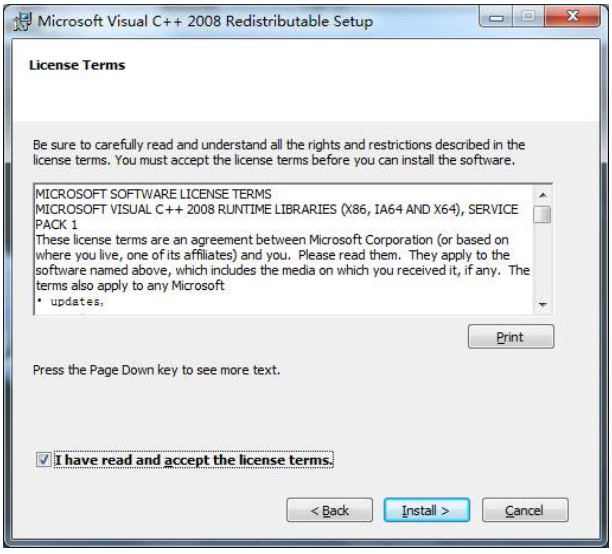


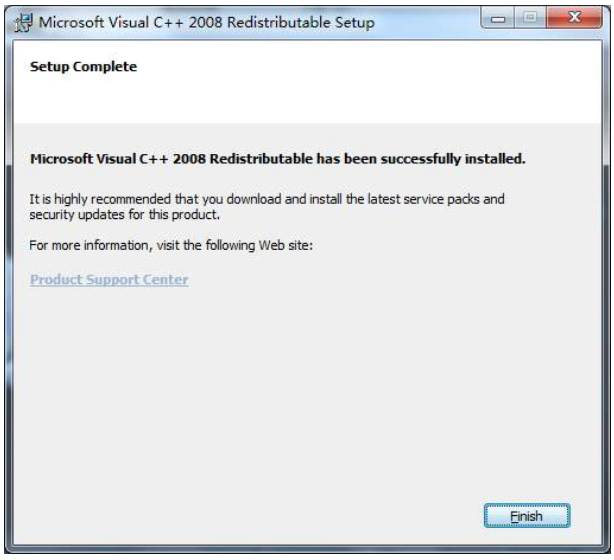
Check “vcredist_x86” and click【Next】to install this plug-in.

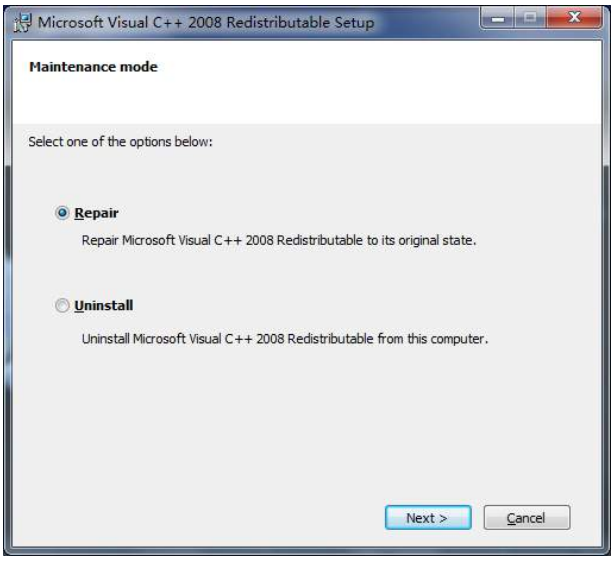

AVR-900 Installation Wizard
Components install
Please select the components you need to install.
To install a feature, click the check box next to it. If the check box is clear, that feature will not be installed.
vcredist_x86
Essential components to run the client and server. If the system once installed AVR-900 , this component does not have to re-install.
InstallShield
< Back
Next >
Cancel

Click【Next】; check “I have read and accept the license terms” and click【Install】to start installation of vcredist_x86; then click【Finish】to complete installation. Please refer to the below pictures.


Microsoft Visual C++ 2008 Redistributable Setup
Welcome to Microsoft Visual C++ 2008 Redistributable Setup
This wizard will guide you through the installation process.
Next >
Cancel

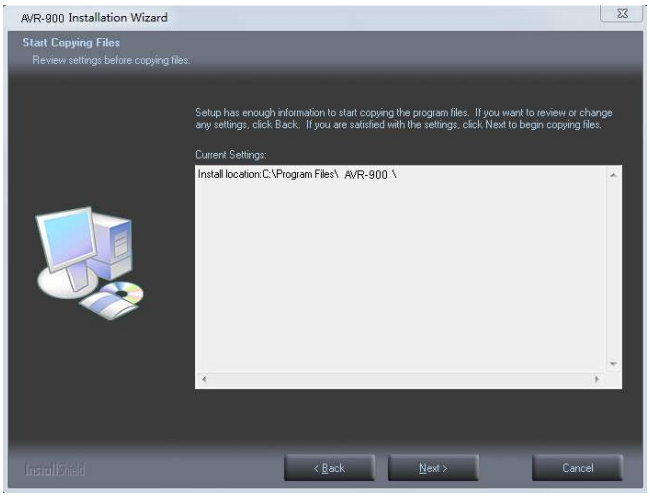

Microsoft Visual C++ 2008 Redistributable Setup
License Terms
Be sure to carefully read and understand all the rights and restrictions described in the license terms. You must accept the license terms before you can install the software.
MICROSOFT SOFTWARE LICENSE TERMS
MICROSOFT VISUAL C++ 2008 RUNTIME LIBRARIES (X86, IA64 AND X64), SERVICE PACK 1
These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft
• updates,
Print
Press the Page Down key to see more text.
I have read and accept the license terms.
< Back
Install >
Cancel


Microsoft Visual C++ 2008 Redistributable Setup
Setup Complete
Microsoft Visual C++ 2008 Redistributable has been successfully installed.
It is highly recommended that you download and install the latest service packs and security updates for this product.
For more information, visit the following Web site:
Product Support Center
Finish

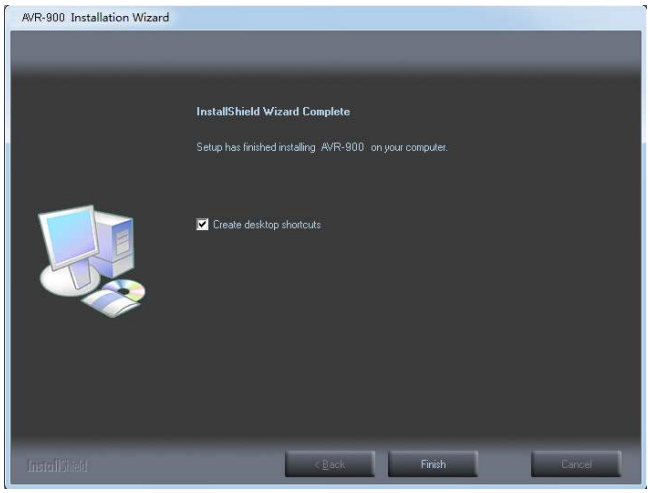

Microsoft Visual C++ 2008 Redistributable Setup
Maintenance mode
Select one of the options below:
Repair
Repair Microsoft Visual C++ 2008 Redistributable to its original state.
Uninstall
Uninstall Microsoft Visual C++ 2008 Redistributable from this computer.
Next >
Cancel

Note: If the above plug-in has been installed, please click 【Repair】and click【Next】to repair software. Click【Finish】button to finish repairing.

Click【Next】to continue.


AVR-900 Installation Wizard
Start Copying Files
Review settings before copying files.
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.
Current Settings:
Install location:C:\Program Files\ AVR-900 \
InstallShield
< Back
Next >
Cancel

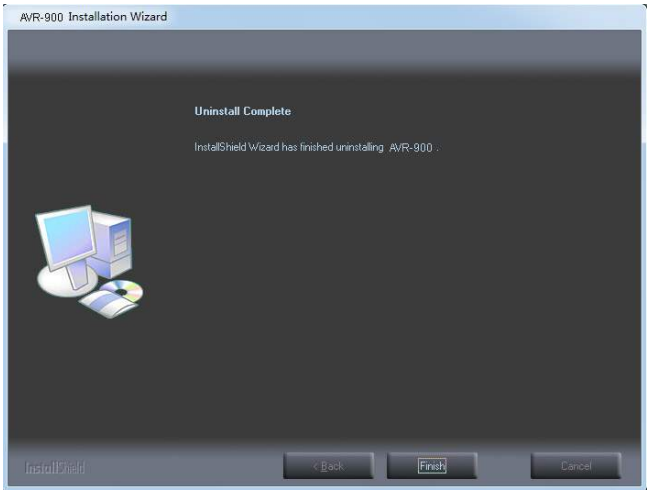
At last, check "Create desktop shortcuts", and then click【Finish】button to complete installation.



1.3.2 Uninstall the Software

Click "Start" at the bottom of the desktop to find the shortcut of AVR-T900 ; then click "Uninstall" to pop up a dialog window; click【Yes】to uninstall the software.

At last, click【Finish】button to finish uninstall .



2 Login Software

2.1 Login

First time to login:

① For the first time to run the AVR-T900, you need to register a super administrator. You shall self-define the username and password.

② To avoid forgetting the password, you can set some questions to help you find the password quickly.

③ After you input your user name, password and set the questions and answers, click【Register】to register the super administrator.

Input the username and password created by you. Click 【Login】to enter into the software.

If checking "Remember Password", there will be no need to input password when you log in next time.

If checking "Auto Login", it will automatically log in as current user next time.

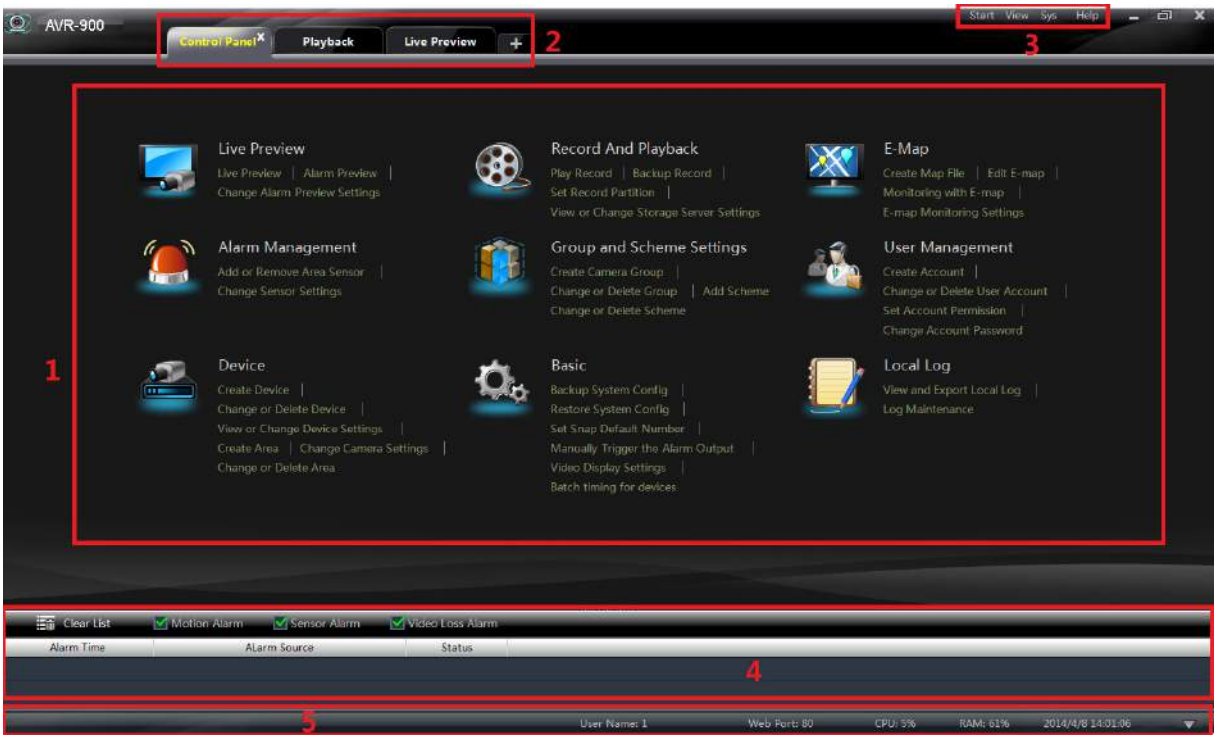
Successful login for first time:

After successful login, a window will pop up. Check the partition for storing record files and click 【OK】to save the settings.

Record Partition
Set the Partition of the System Record
Please select the partition of the system record. The available space of the partition must be more than 2GB.
Partition Symbol
Partition Size
Remaining Space
C: 37.6G 25.0G
D: 58.6G 45.0G
E: 58.6G 30.9G
F: 78.1G 68.8G
OK
Cancel

2.2 Control Panel Instruction

The control panel of AVR-T900 is shown as below:



There are five areas in the main interface of this software. The descriptions of each area are as follows：

Area	Description	Area	Description
1	Function Area	**2**	Tab Bar—to display the operated functions
3	Menu Bar	**4**	Alarm Information List.
5	Status information list		

Description of Menu Bar

Menu	Description
Start	Export the control panel, live preview, playback tab and lock or exit the client.
View	Export the live preview, control panel, local log, E-map, alarm preview, playback, user account and permission, basic configuration and device management and organize the live view.
System	Including lock client , broadcast to device, switch user, import or export configuration, etc.
Help	View user manual and software version.

Descriptions of Function Module

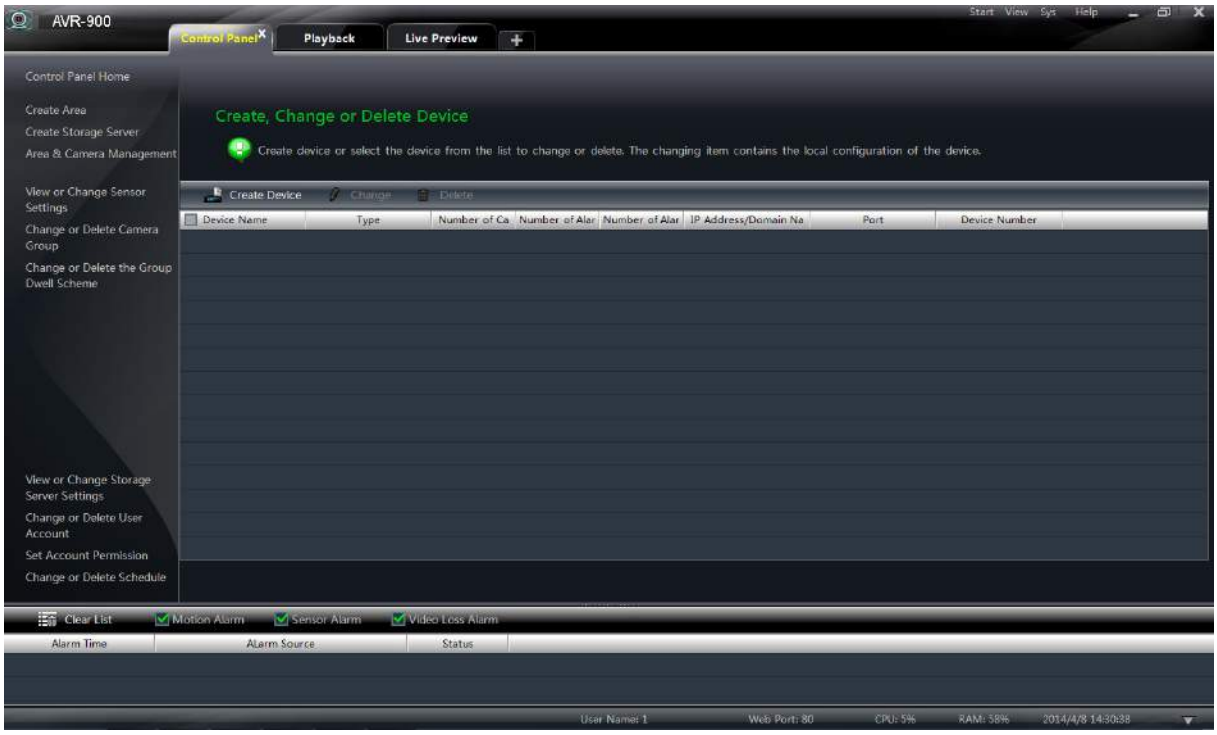
Menu	Description
	Live Preview: To view live images and record, snap, control PTZ, etc.
	Playback: To remotely play the local record.
	E-map: To manage and display maps, hot zones and hot spots. To operate E-maps – zoom in/out e-maps, view hot zones and hot spots, display alarm information on the map.
	Device Management: To create, modify or delete areas, devices and cameras.
	Group and Scheme Settings: To create, modify or delete camera groups and schemes.
	User Account and Permission: To add, modify, delete user and user permission.
	Local Log: To search, view and backup local log.
	Basic Configuration: To setup record partition and path, system startup and maintenance & backup and restoration.
	Alarm Management: To add or remove the sensor of the area; To setup alarm trigger and modify the area of the sensor.

Descriptions of Other Buttons

Button	Description
	Click to hide the window.
	Click to zoom in/out the window.
	Click to exit the window.
	Click to extend or shrink the window (eg. Extend or shrink the list of alarm information list).

3 Device Management

In the control panel, click icon to enter the device management interface.



3.1 Add Device

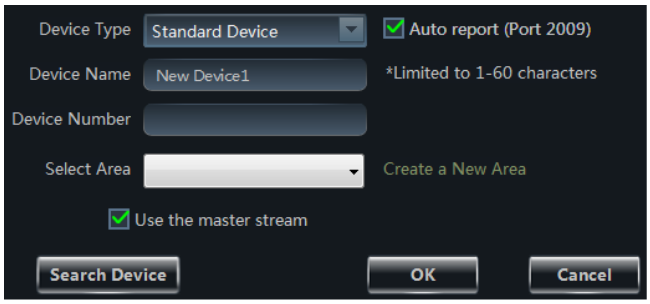
Click button to enter into the interface.

- Select device type and input device name;
- Input IP address or domain, port of the device, then input its user name and password;
- Select an area. If you haven't created area before, you can click "Create a New Area" to create;

Note: You can click "Create an Area" shortcut menu under Device to create an area in the control panel.

- Check "Use the master stream" according to the actual network situation. Checking or not checking it will affect the stream choice of live preview.

You can also check “Auto report” to add device. The setting steps are as follows:

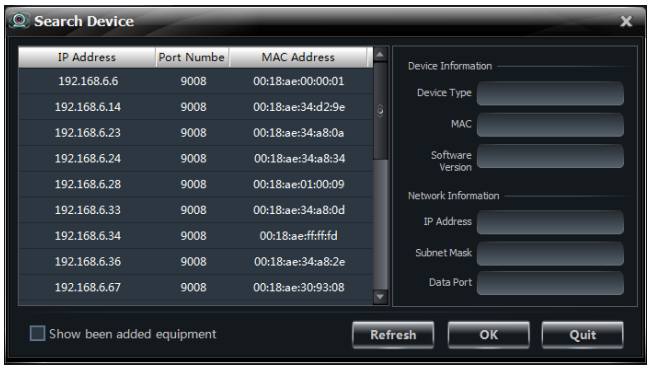


- Choose the device type and check “Auto report(Port 2009)”.
- Input device name.
- If you want to add DVR, please enter Network→Sever tab from device. Check “Enable”, input IP address and port(2009) of AVR-T900 & device ID.
  If you want to add IP camera, please enter Network Configuration → Server Configuration. Check “Do you want IP camera to connect server” and input AVR-T900 Address, Port and Device ID.
- Input the Device ID according to the device ID of DVR or IP camera device.
- Click【OK】button to save the settings and add the device.

➢ Add Online Devices

Click

button to automatically search online devices in the local network. Click a device to display its basic information. Double click it to add it.



If the device is added, this device will be hidden in the search device interface.

3.2 View, Change or Delete Device

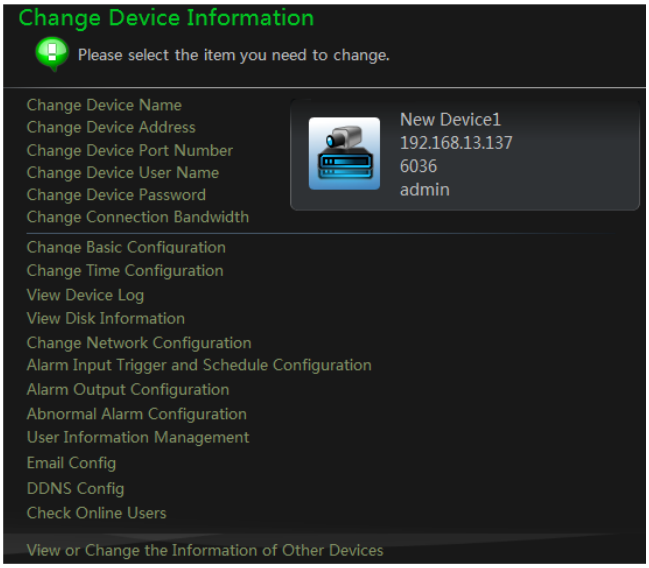
Select the added device and click

button to delete the device from the list.

Select the added device and click

to pop up a window.

In this interface, you can change the device name, address, port, etc, or change basic configuration, time configuration, DDNS configuration and Email configuration, etc, you can also query the inline users.



➢ Change the Device Name

Click ***"Change Device Name"*** to change the name of selected device.

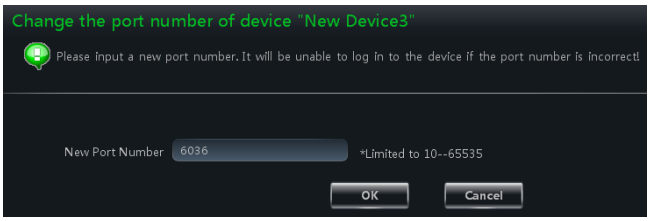
Change the Name of Device "New Device3"
Please input a new device name which will use as the new identity of the device!
New Name
New Device3
*Limited to 1-60 characters
OK
Cancel

➢ Change Device Address

Click ***"Change Device Address"*** to change the IP address of selected device.

➢ Change Device Port Number

Click ***"Change Device Port Number"*** to change the port of selected device.

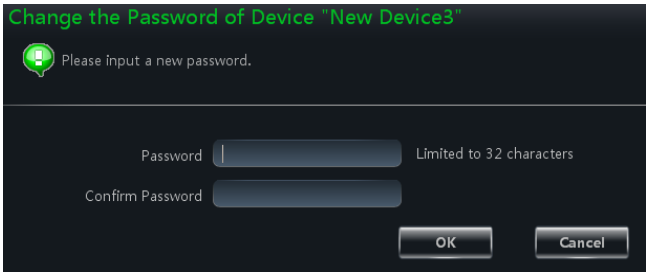

Change the port number of device "New Device3"
Please input a new port number. It will be unable to log in to the device if the port number is incorrect!
New Port Number
6036
*Limited to 10--65535
OK
Cancel

➢ Change Device User Name

Click ***"Change Device User Name"*** to change the device account name.

➢ Change Device Password

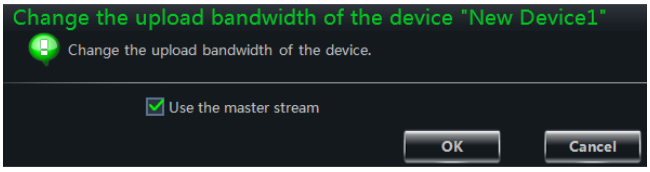
Click ***"Change Device Password"*** to change device password.



➢ Change Connection Bandwidth

Check ***"Use the master stream"*** according to the actual situation.

Note: Checking or not checking it will affect the stream choice of live preview.


Change the upload bandwidth of the device "New Device1"
Change the upload bandwidth of the device.
Use the master stream
OK
Cancel

➢ Change Basic Configuration

Click ***"Change Basic Configuration"*** to pop up a dialog box. You can change the basic configuration of device and check "Permission Check" or "Record Coverage" according to the actual situation.

➢ Change Time Configuration

Click ***"Change Time Configuration"*** to enter the interface. Change the time and date if you need.

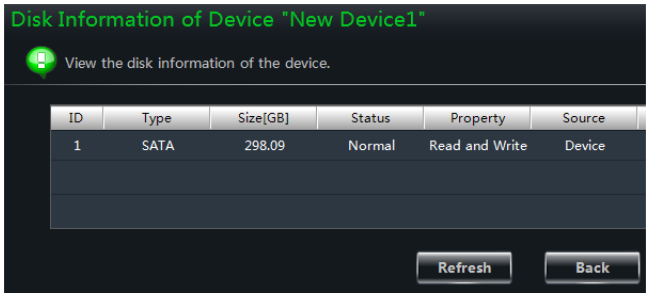
Check "Sync Time with NTP Server" to synchronize with NTP server.

➢ View Device Log

Click ***"View Device Log"*** to enter the interface. Choose the type of system logs; enter start time and enter time to search the log information of the device.

➢ View Disk Information

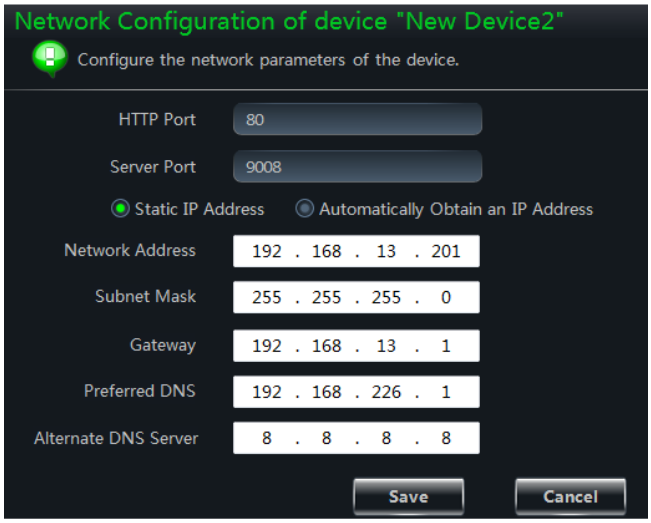
Click ***"View Disk Information"*** to check the detail information of disk from the list.



➢ Change Network Configuration

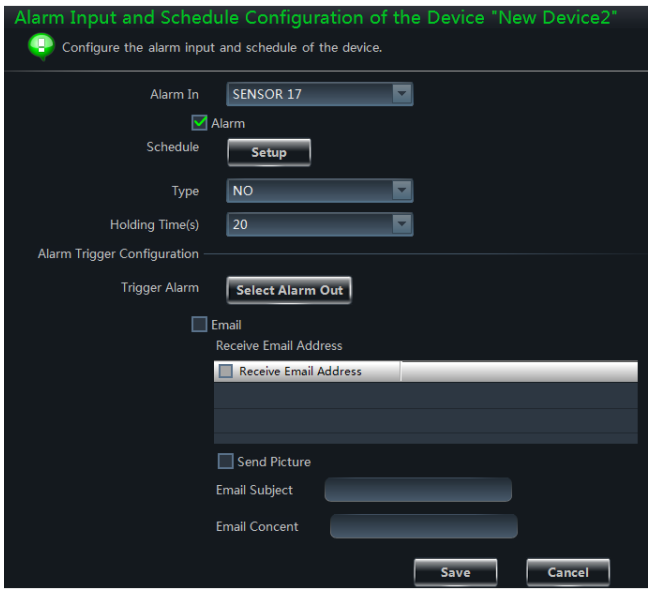
Click ***"Change Network Configuration"*** to enter the interface. You can change HTTP port, Server port; network address, etc.

Note: If changing the port and IP address there, the network will disconnect. Then you need to accordingly change the port and IP address of the device connecting the AVR-T900.



➢ Alarm Input Trigger and Schedule Configuration

Click ***"Alarm Input Trigger and Schedule Configuration"*** to enter the interface. Select a sensor corresponding to the alarm input; choose a type and holding time for it. You also can set trigger alarm or other configurations.



➢ Alarm Output Configuration

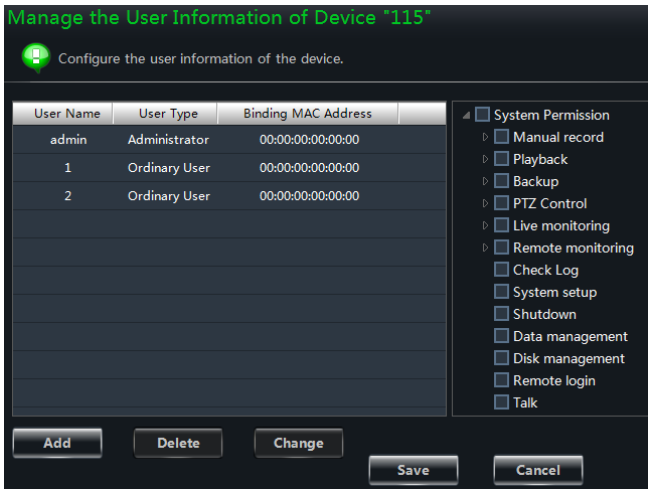
Click ***"Alarm Output Configuration"*** to enter the interface. Select an alarm output and holding time; then edit a name for it. You can enable buzzer alarm and set a time for it.

➢ Abnormal Alarm Configuration

Click ***"Abnormal Alarm Configuration"*** in to enter the interface. Choose the alarm type according to your need. Enable "Buzzer Alarm" and select alarm out.

➢ User Information Management

Click ***"User Information Management"*** shortcut to enter the interface. You can check the information of user who is logging in the device.



➢ Email Configuration

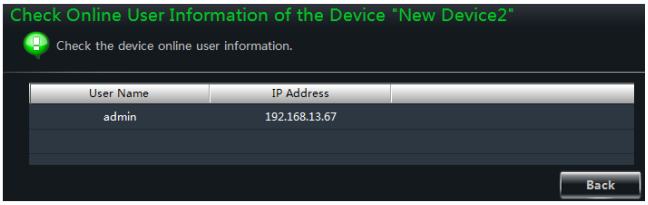
Click "Email Configuration" to enter the interface. You can configure the basic parameters of Email.

➢ DDNS Configuration

Click "DDNS Configuration" to enter. You can configure the basic parameters of DDNS.

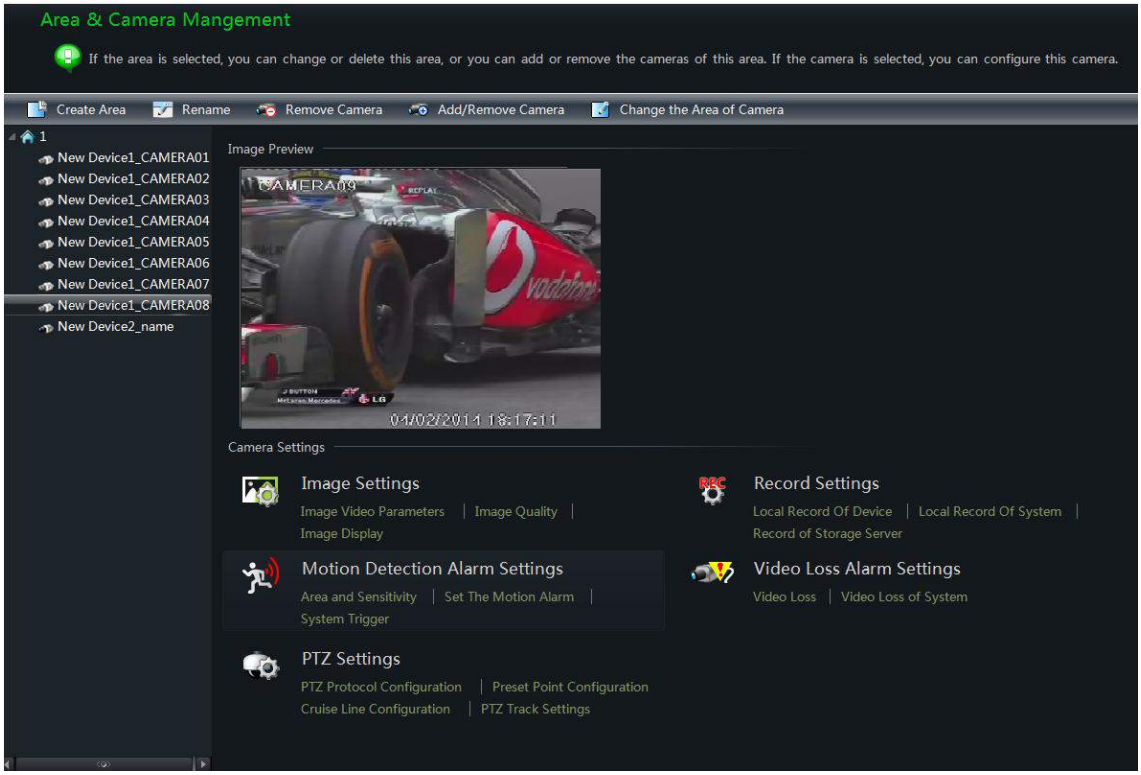
➢ Check Online Users

Click “Check Online Users” to enter the interface. In this interface, you can see the number of online users.

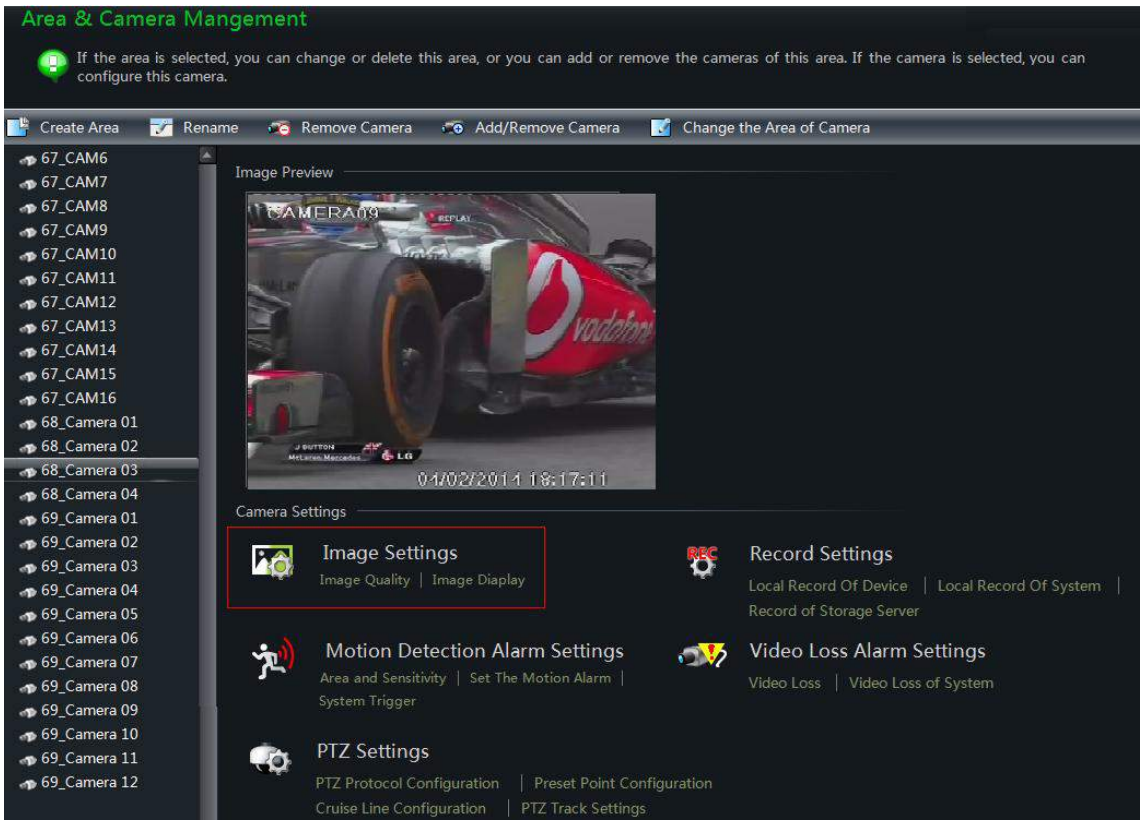


3.3 Area and Camera Management

In the control panel, click “**Change Camera Settings**” under Device to enter the interface. You can modify or delete the area and manage the cameras. Select a camera you want to setup as shown on the below figure.


Area & Camera Mangement
If the area is selected, you can change or delete this area, or you can add or remove the cameras of this area. If the camera is selected, you can configure this camera.
Create Area
Rename
Remove Camera
Add/Remove Camera
Change the Area of Camera
1
New Device1_CAMERA01
New Device1_CAMERA02
New Device1_CAMERA03
New Device1_CAMERA04
New Device1_CAMERA05
New Device1_CAMERA06
New Device1_CAMERA07
New Device1_CAMERA08
New Device2_name
Image Preview
CAMERA09
04/02/2014 18:17:11
Camera Settings
Image Settings
Image Video Parameters | Image Quality | Image Display
Record Settings
Local Record Of Device | Local Record Of System | Record of Storage Server
Motion Detection Alarm Settings
Area and Sensitivity | Set The Motion Alarm | System Trigger
Video Loss Alarm Settings
Video Loss | Video Loss of System
PTZ Settings
PTZ Protocol Configuration | Preset Point Configuration
Cruise Line Configuration | PTZ Track Settings

The camera without some functions will not display relative sheets and links. As shown in the following picture.



3.3.1 Area Management

Click

button to create area.

Select an area and click

button to change its name.

Select an area and click

button to delete it.

Select an area and click

to pop up a window.

① Check the camera on the left column and click

button to add the camera to the area.

② Check the camera on the right column and click

button to remove the camera from the area.

Select a camera and click

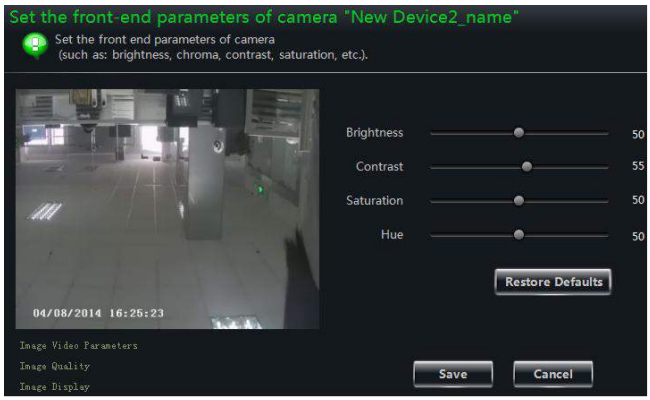
button to modify the area of this camera.

3.3.2 Camera Management

The real-time image will be displayed after selecting a camera. You can setup the parameters of this camera.

➢ Image Settings

Image settings include image video parameter, image quality and image display.



Click ***"Image video parameters"*** to enter the interface.

① Adjust the brightness, contrast, saturation and chroma of the image.

② Clicking 【Restore Default】 button will restore the above parameters to factory default settings.

Click ***"Image Quality"*** under Image Settings to enter the interface.

Choose the device stream, resolution, quality, etc. according to practical situation.

Click ***"Image Display"*** to enter the interface.

① Create the camera's name and set up its display position on the OSD including the time stamp.

② Click【Copy to】button to apply the settings to the selected channel.

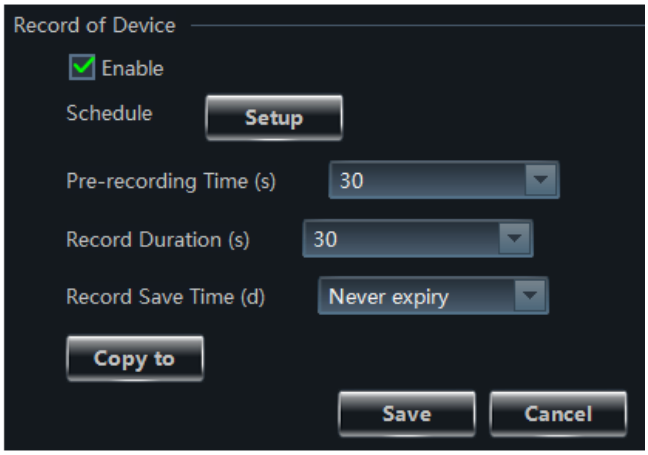
➢ Record Settings

Click ***"Record Settings"***, users can set the record of device, the record of system and the record of storage.

Under the record of device

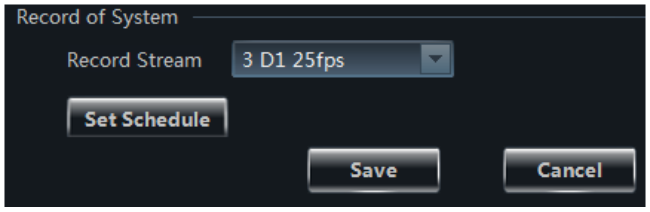
① Choose pre-recording time, duration and record save time.

② Click【Copy to】button to save the settings to the selected channel.



Under the record of system

You can set schedule and record stream.

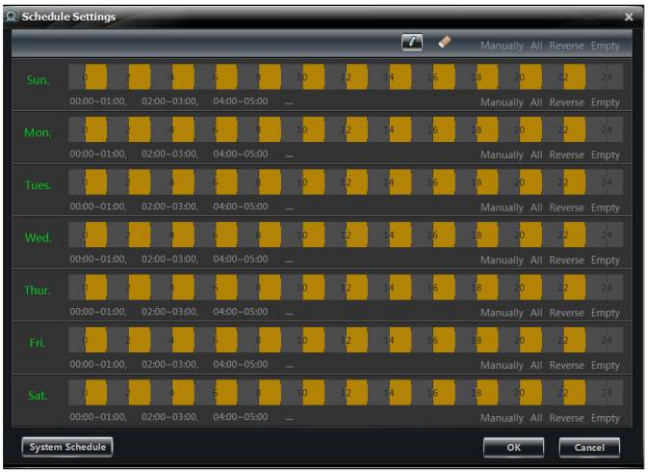


How to set schedule?

The schedule setting between local record of device and local record of system is different.

The schedule setting of local record of device is as follows:

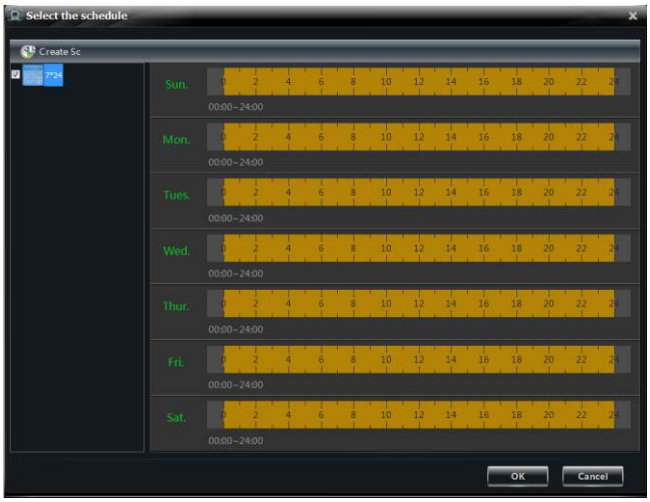
First, you should check the Enable in the Record of Device interface, then click【Setup】button to pop up a window at right. Click button to setup schedule or manually input the time.



The schedule setting of local record of system is as follows:

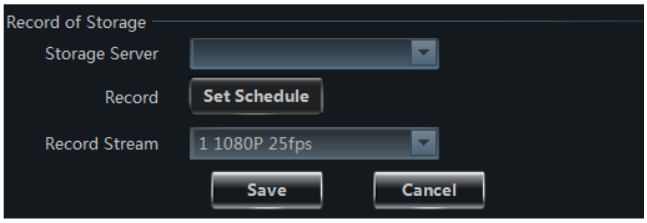
Click 【Set Schedule】 button to pop up the window at right.

- Check “7x24” or “Create Schedule” to set schedule.
- Click icon and move the cursor to select the time.
- Click icon to delete the selected time.
- Clicking “Manually” to manually input time
- Click “All” / “reverse” to quickly select the time.
- Click “Empty” to clear all the time.



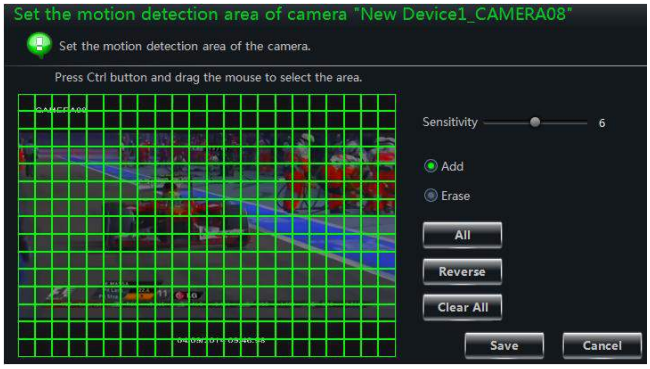
Under the record of storage

Before we begin the record of storage, please confirm that the right normal storage server which can be used has been added(You can add the storage server by clicking “View or Change Storage Server Settings” in the control panel).Choose a storage server and then setup record schedule and record stream. The schedule setup is the same with the local schedule setup. After setup, you should click【Save】button to save the settings.



➢ Motion Detection Alarm Settings

Click ***"Area and Sensitivity"*** under Motion Detection Alarm Setting to enter the interface.



① Drag slide bar to set the sensitivity value. The higher the value is, the more sensitive it is.

② Click "Erase"/ "Add", then hold press "Ctrl" and left click mouse to delete /add the area you want.

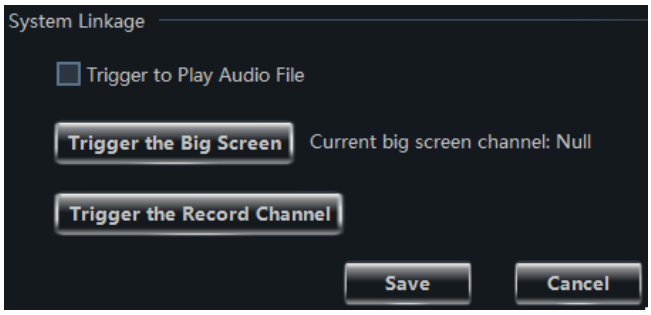
③ Click 【All】/【Reverse】/【Clear All】 button to select area or clear all the area quickly.

Click ***"Set The Motion Alarm"*** under Motion Detection Alarm Setting to enter the motion alarm setting interface as shown at right. User can set motion alarm and linkage configuration.

Note: Please refer to the user manual of the device for device linkage configuration.

Click ***"System Trigger"*** under Motion Detection Alarm Setting to enter the interface.

Under the system linkage, check "Trigger to Play Audio File". If the motion alarm of a certain channel is triggered, there will be given out a sound like "beep".



Click 【Trigger the Big Screen】 button to select channel. If the motion alarm of the selected channel is triggered, a big picture will pop up on the screen.

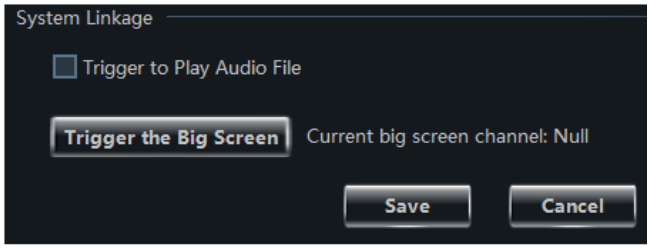
Click 【Trigger the Record Channel】 button to select channel. If the motion alarm of the selected channel is triggered, the channel's record will be opened automatically.

➢ Video Loss Alarm Settings

Click ***"Video Loss"*** to enter the interface. The steps of configuring video loss are same with the device settings; please refer to the video loss chapter of device user manual.

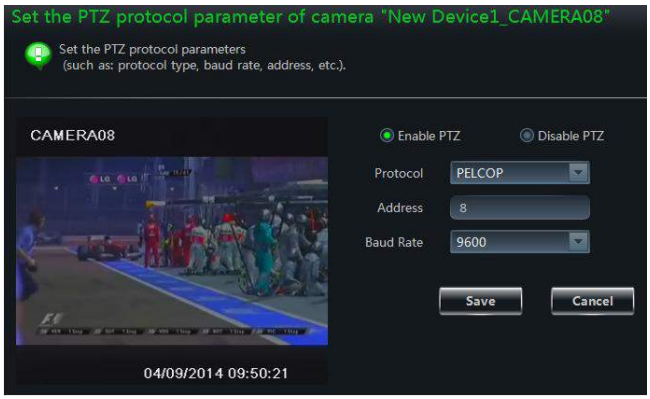
➢ Video Loss of System

Click "***Video Loss of System***" to enter the right window. You can set the video loss of system.



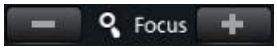
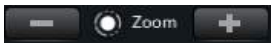
➢ PTZ Settings

Click ***"PTZ Protocol Configuration"*** under PTZ Settings to enter the interface. You can enable or disable PTZ. From the Protocol and Baud Rate drop-down menu, choose a protocol and a baud rate to associate with the PTZ, and then input the address of the PTZ connecting the software.



Click ***"Preset Point Configuration"*** under PTZ Settings to enter the interface. Enable corresponding preset points and create a new name in the "New Name" field by selecting the preset point. Adjust the dome direction, speed, etc by clicking the buttons. Click【Save Position】to save the current position of the dome.

The definitions of the buttons are below:

Buttons	Description
	means the dome rotate up; means the dome rotate up left; means the dome rotate up right; means the dome rotate down. means the dome rotate left down; means the dome rotate right down; means the dome rotate left; means the dome rotate right; means the dome stop rotating
	Drag the slider bar to adjust rotation speed of the dome
	Focus button. Click button to obtain long focus. Click button to obtain short focus
	Iris button. Click button to increase light of the dome. Click button to decrease light of the dome
	Zoom button. Click button to zoom in the picture of this camera. click button to zoom out the picture of this camera
	Track
	Auto Scan
	Wiper button
	Light button

Return to Area and Camera Management interface, and then click ***"Cruise Line Configuration"*** PTZ Settings. You can add/change/preview/delete curies.

In the Area and Camera Management interface, click "PTZ Track Settings" to see the picture on the right hand. You can set the PTZ track.

➢ Remove camera

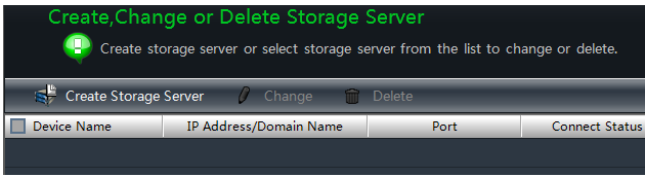
In the Area and Camera Management interface, select a camera, click Remove Camera button to pop up a dialog window, click【OK】button to remove the camera.

4 Storage Server Management

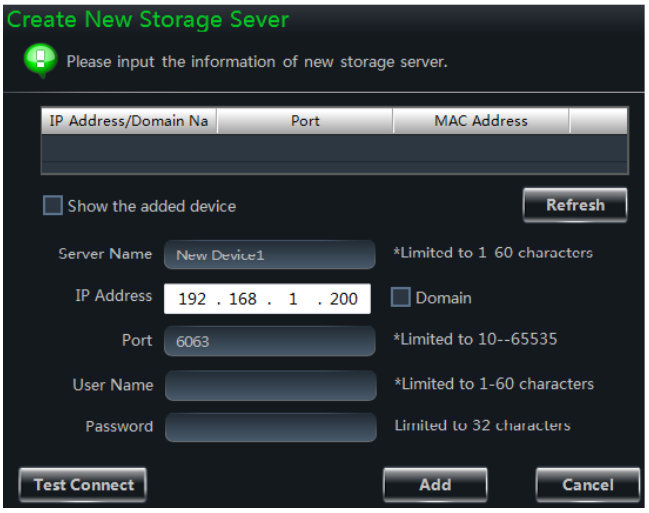
AVR-T900 supports the function of storage server. By using storage server, you can store the IPC device image; it does not matter on record storage even if you shut down the storage server.

4.1 Create Storage Server

Click "View or Change Storage Server Settings" under Record and Playback in the control panel, you will enter the "Create, Change or Delete Storage Server" interface shown on the right.



Before you begin to create a storage server, you must set the storage server and the AVR-T900 software under a same LAN. By Create Storage Server button, you can enter the "Create New Storage Server" interface. The AVR-T900 software will search available storage server under the same LAN automatically after you enter this interface. If none storage server is searched after a long time, you can click Refresh button to refresh. The default IP address, username and password of storage server is "192.168.1.200", "admin" and "123456". The first time you use the storage server, only if you input the default username and password, you can add this storage server. The IP address, username and password of storage server can be changed, the way to change is in section 4.2 "Change or Delete the Information of this Storage Server".



Select any storage server device in the list, the IP address and port number of this storage server will be shown below. The server name, IP address, port number and other information of storage server can be changed, the way to change is in section 4.2 "Change or Delete the Information of this Storage Server". After you input the default username and password, you can click Test Connect button to test the connection. If it is connected successfully, then click Add button to add this storage server.

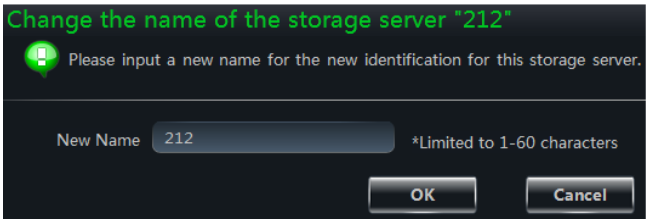
4.2 Change or Delete the Information of Storage Server

Select the storage server you want to delete in the "Create, Change or Delete Storage Server" interface, click Delete button to remove it from the list.

Select the storage server you want to change in the "Create, Change or Delete Storage Server" interface, click Change button to enter into "Change the information of this storage server" interface shown on the right, in this interface, you can change the server name, IP address, port number and other information of storage server.

➢ Change Storage Server Name

Select "Change Storage Server Name" in "Change the information of this storage server" interface to change the name of storage server. Input the new name according to the rules and then click OK button to save the change.


Change the name of the storage server "212"
Please input a new name for the new identification for this storage server.
New Name
212
*Limited to 1-60 characters
OK
Cancel

➢ Change Storage Server Address

Select "Change Storage Server Address" in "Change the information of this storage server" interface to change the address of storage server. User must make sure that the IP address changed and the AVR-T900 software are in a same LAN. You can also click Domain to change the domain of storage server and then click OK button to save the change.

Change the IP address of the storage server "212"
Please input a new IP address. It will be unable to log in to the storage server if the port IP address is incorrect!
IP Address
192 . 168 . 51 . 212
Domain
OK
Cancel

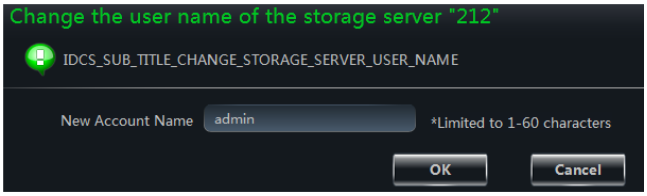
➢ Change Storage Server Port

Select "Change Storage Server Port" in "Change the information of this storage server" interface to change the port of storage server. Then click OK button to save the change.

Change the port number of the storage server "212"
Please input a new port number. It will be unable to log in to the storage server if the port number is incorrect!
New Port Number
6063
*Limited to 10--65535
OK
Cancel

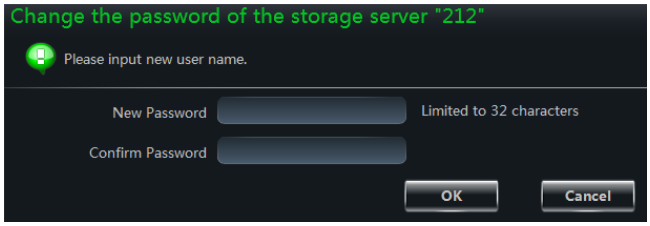
➢ Change Storage Server Username

Select "Change Storage Server Username" in "Change the information of this storage server" interface to change the username of storage server. Then click OK button to save the change.



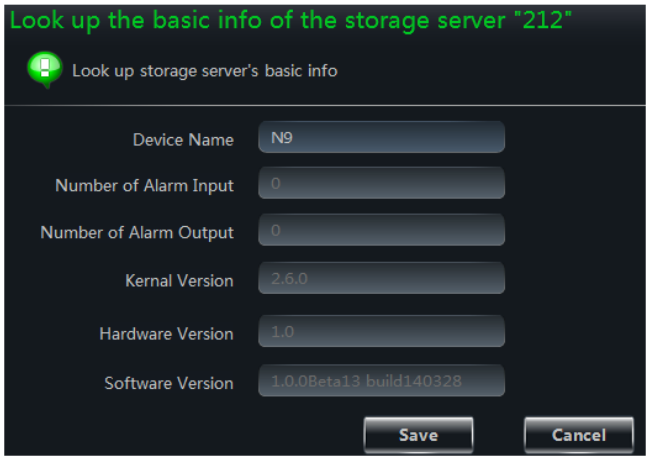
➢ Change Storage Server Password

Select "Change Storage Server Password" in "Change the information of this storage server" interface to change the password of storage server. Then click OK button to save the change.



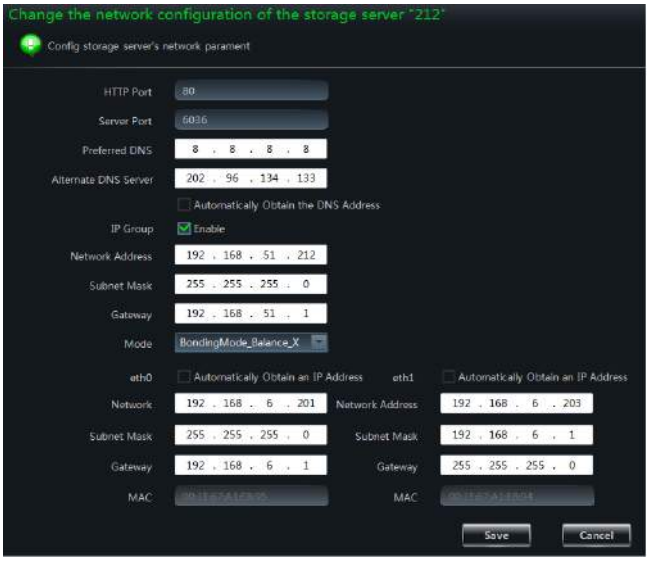
➢ Basic Information

Select “Basic Information” in “Change the information of this storage server” interface, you can view the basic information of storage server such as “Device Name”, ”Number of Alarm Input” and “Number of Alarm Output”.



➢ Network Setting

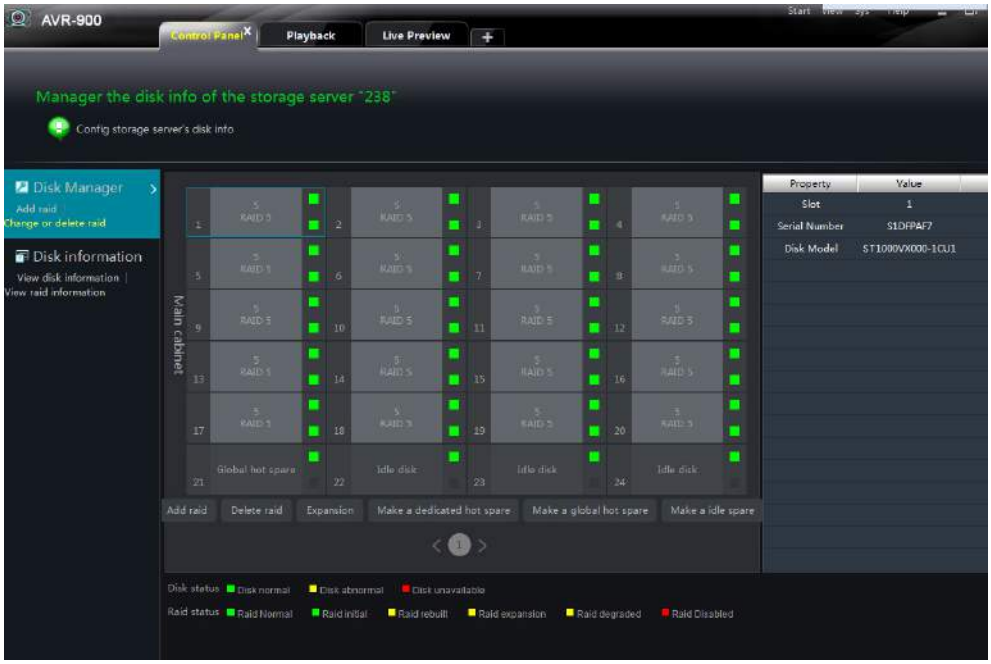
Select “Network Setting” in “Change the information of this storage server” interface, you can change the network setting of storage server.



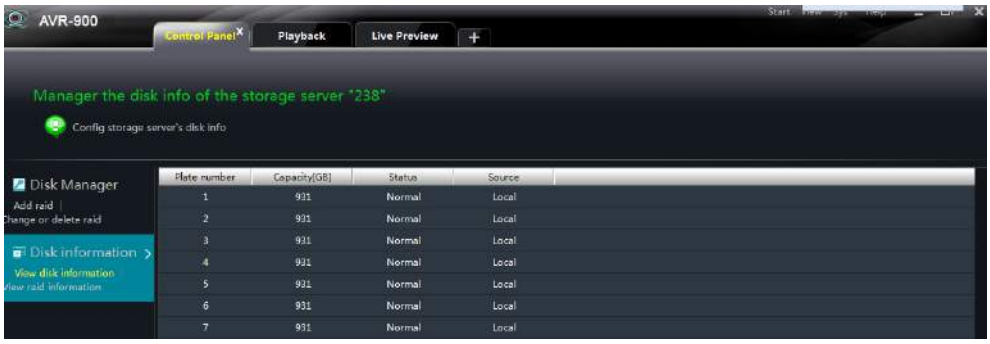
➢ Disk Manager

Select “Disk Manager” in “Change the information of this storage server” interface, you can manage the disk of storage server.

Select a disk in the disk table, the relative properties of the disk will be shown on the right, such as “Slot”, ”Serial Number” and “Disk Model”.



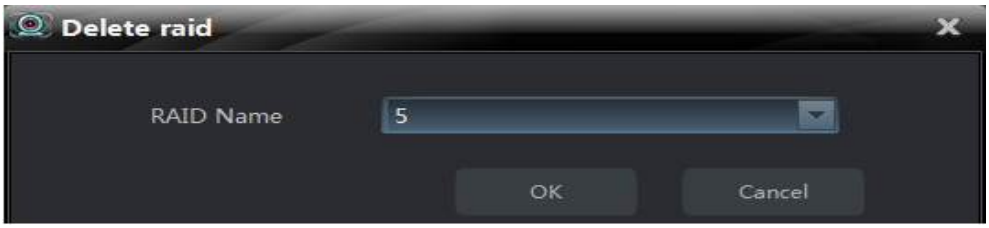
Tab “Disk information” on the left of the interface, you can view all disks’ status information.



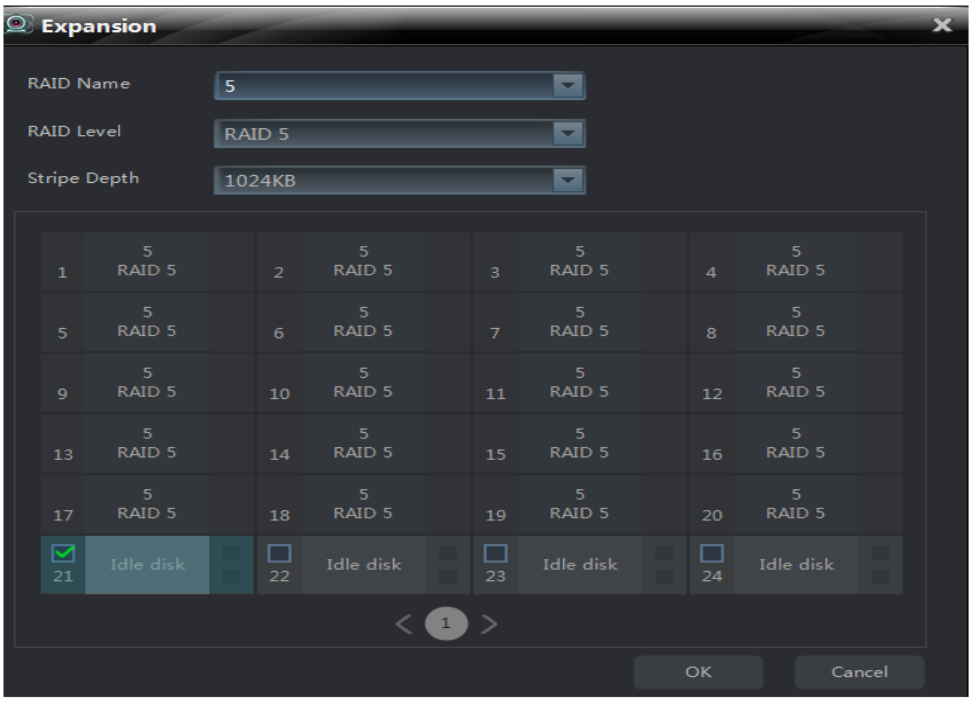
Click “View raid information”, the raid information of disks will be shown on the right.

Click Add raid button, you can add new raid. Input the raid name, select raid level and stripe depth, click OK button to add raid.

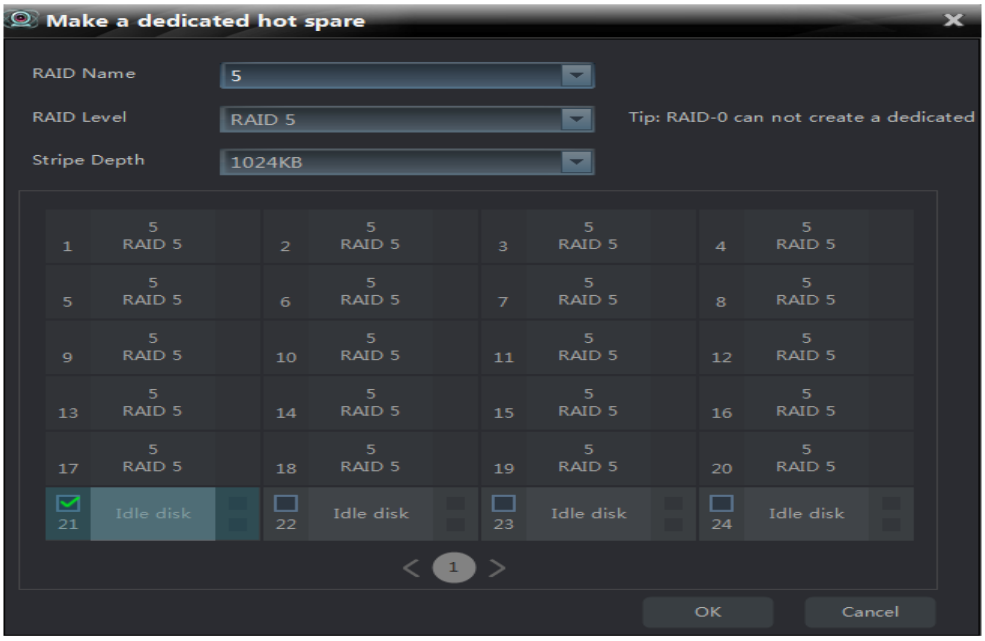
Click Delete raid button, select the raid you want to delete, then click OK button to delete it.



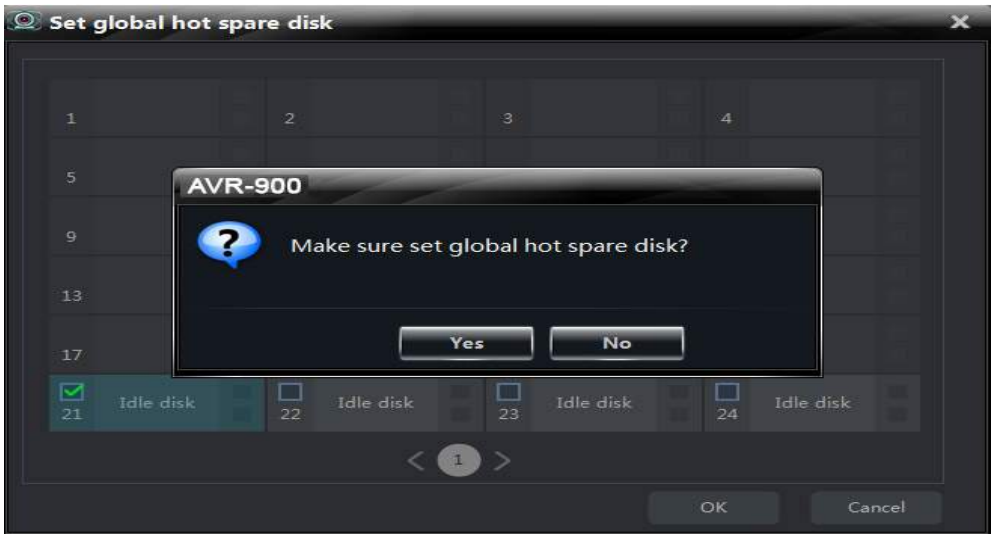
You can do disk expansion by clicking Expansion button.



Select a disk, click Make a dedicated hot spare button, then input the raid name, select raid level and stripe depth, click OK button to make this disk a dedicated hot spare. Disk of RAID-0 level cannot be made a dedicated hot spare.



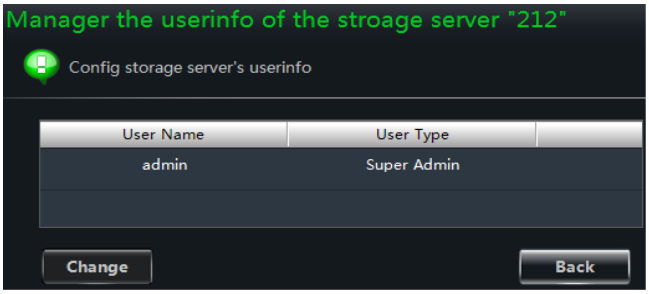
Select a disk, then click Make a global hot spare button, you can make the disk you selected a global hot spare.



Select a disk, then click Make a idle spare button, you can make the disk you selected an idle spare.

➢ User Manager

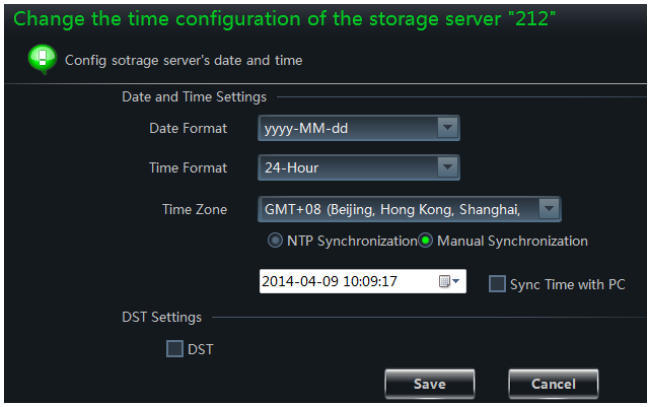
Select "User Manager" in "Change the information of this storage server" interface, you can change the user information of storage server.



Click Change button in "Manager the userinfo of the storage server X" interface, you can modify the username and password.

➢ Time Setting

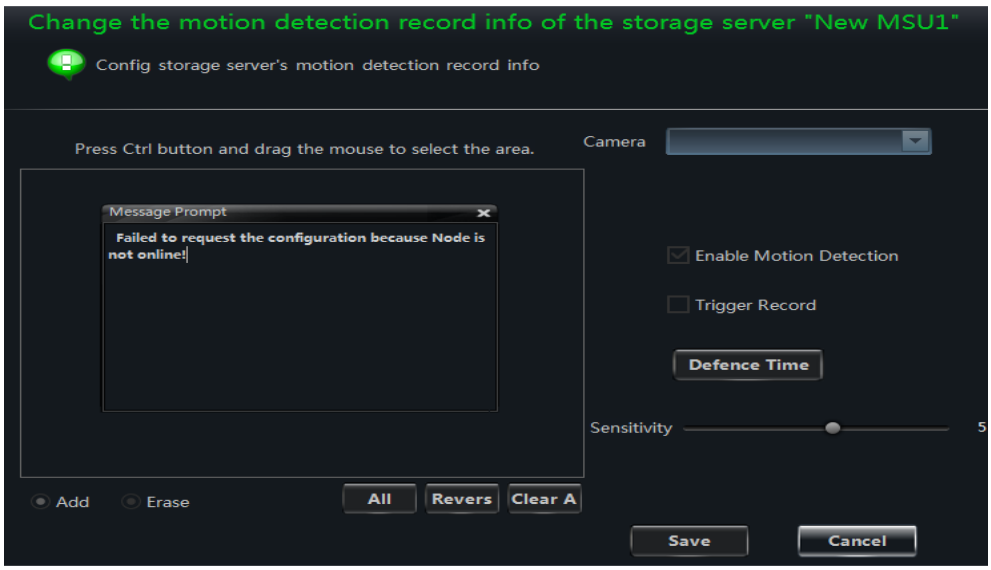
Select "Time Setting" in "Change the information of this storage server" interface, you can change "Date and Time" and "DST" of storage server.



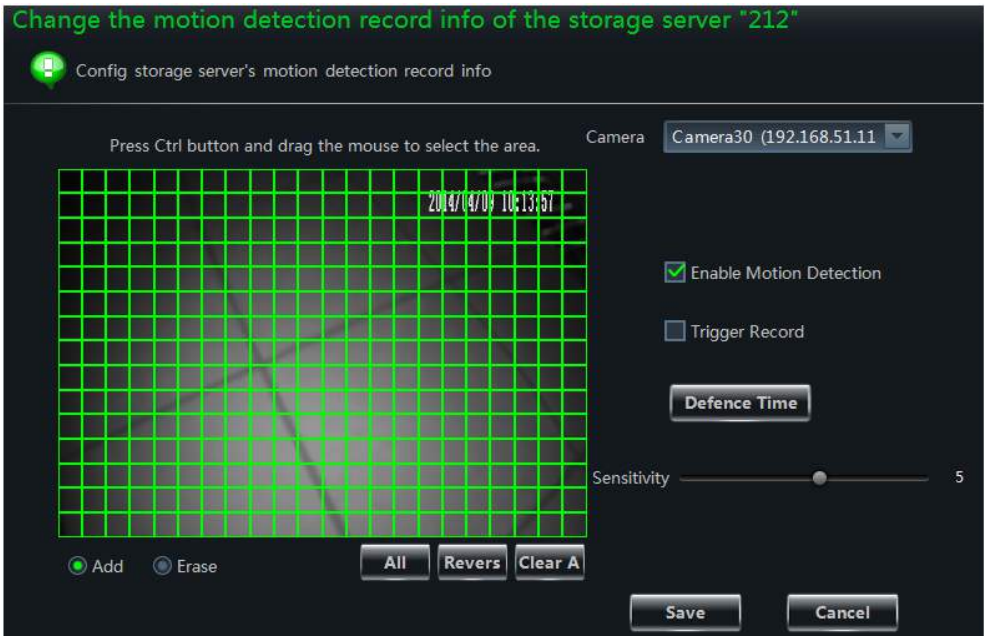
➢ Alarm Record Setting

Select "Alarm Record Setting" in "Change the information of this storage server" interface, you can change the motion detection record setting of storage server.

If the camera is not online, the interface below will show:

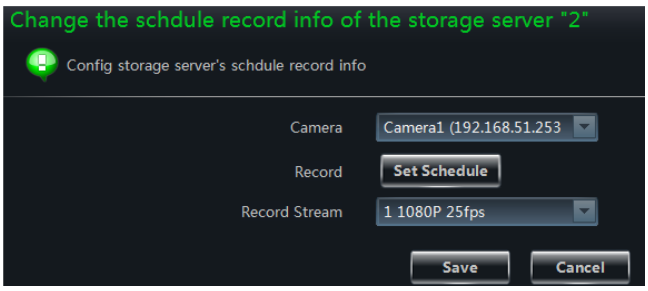


If the camera is online, the interface below will show:



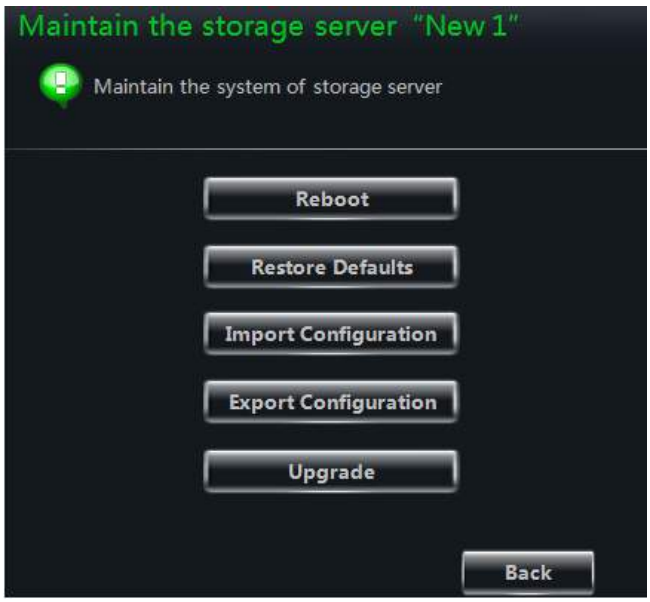
➢ Schedule Record Setting

Select "Schedule Record Setting" in "Change the information of this storage server" interface, you can change the schedule record information of the storage server.



➢ Maintain System

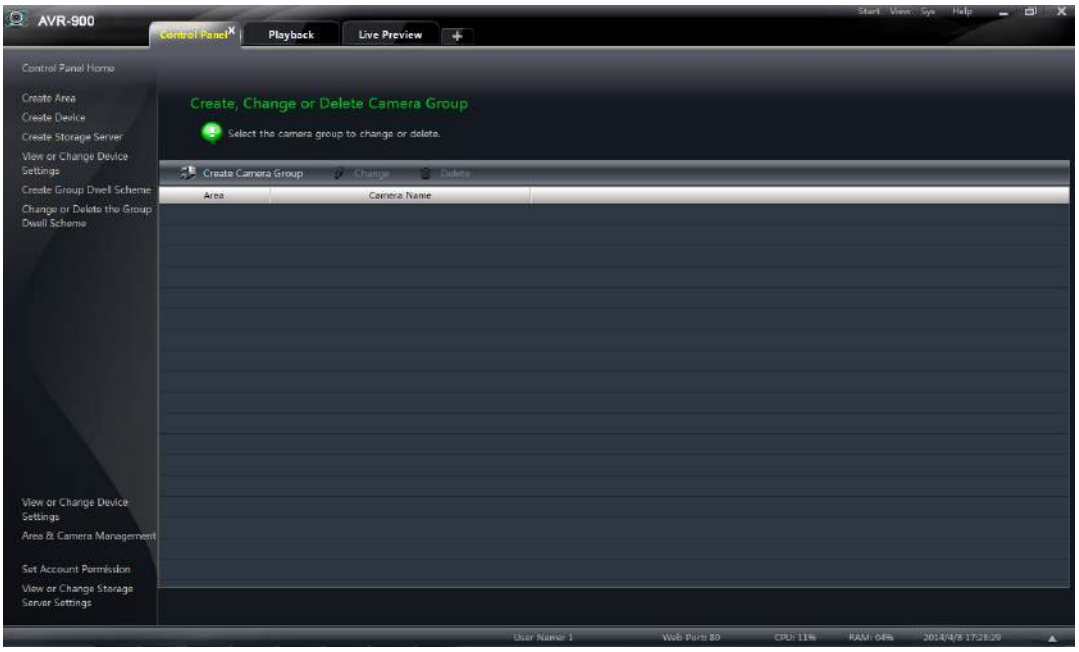
Select "Maintain System" in "Change the information of this storage server" interface, you can maintain the storage server.



5 Group and Scheme Setting

5.1 Camera Dwell Group

In the interface of control panel, click **"Group and Scheme Setting"** to enter the interface. Please refer to the below picture:



5.1.1 Create, Change or Delete the Camera Group

In the above interface, click

button to create a group.

Select a group in the group list, click

button to delete it.

Select a group and click

button to enter the interface as shown on the right. You can change the group name and dwell time interval in this interface.

Chang the Information of Cameras Group
Please select the item which you need to change.
Change Group Name
Change the Dwell Time Interval
Add or Remove the Camera Group
group1
View or Change the Information of Other Camera Groups

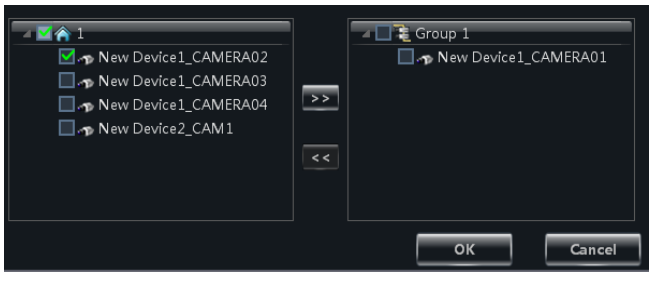
5.1.2 Add or Remove the Camera Group

① Select a group and click

button to enter the interface. Then click ***"Add or Remove the Camera Group"*** to pop up the window as shown on the right.

② Check cameras on the left and click

button to add the selected cameras to the group on the right.

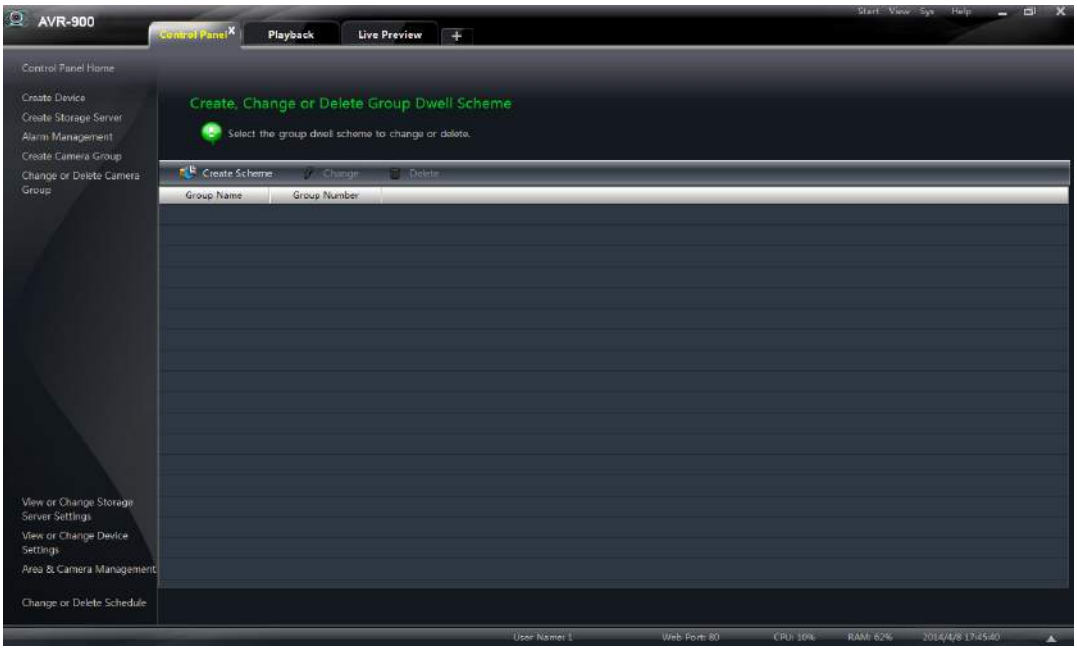


③ Check cameras on the right, then click

button to remove them from the group.

5.2 Group Dwell Scheme

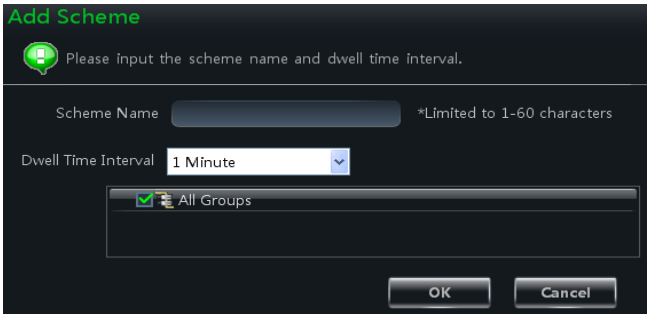
Scheme is used for dwelling group by group. Therefore, at least one group should be created. Click **"Change or Delete the Group Dwell Scheme"** on the left side of the menu to enter the interface as below.



5.2.1 Create Scheme

Click

button to create a scheme. You should input the scheme name, select the dwell time interval and group. The added scheme will be displayed in the scheme list.



5.2.2 Change and Delete Group Dwell Scheme

Select a scheme in the scheme list, click

button to delete it.

Select a scheme and click

button to enter the interface. You can change the name of scheme and the dwell time interval.

Change the Camera Group Dwell Scheme
Please select the item which you need to change.
Change the Name of Scheme
Change the Dwell Time Interval
Add or Remove Group of the Scheme
scheme1
View or Change the Information of Other Schemes

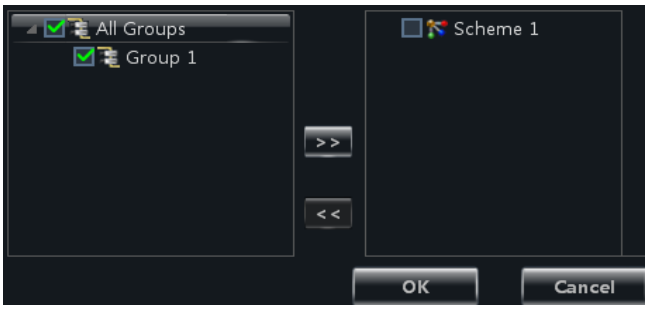
Select a scheme and click

button. Then click ***"Add or Remove Group of the Scheme"*** to enter the interface.

- Check group on the left and click

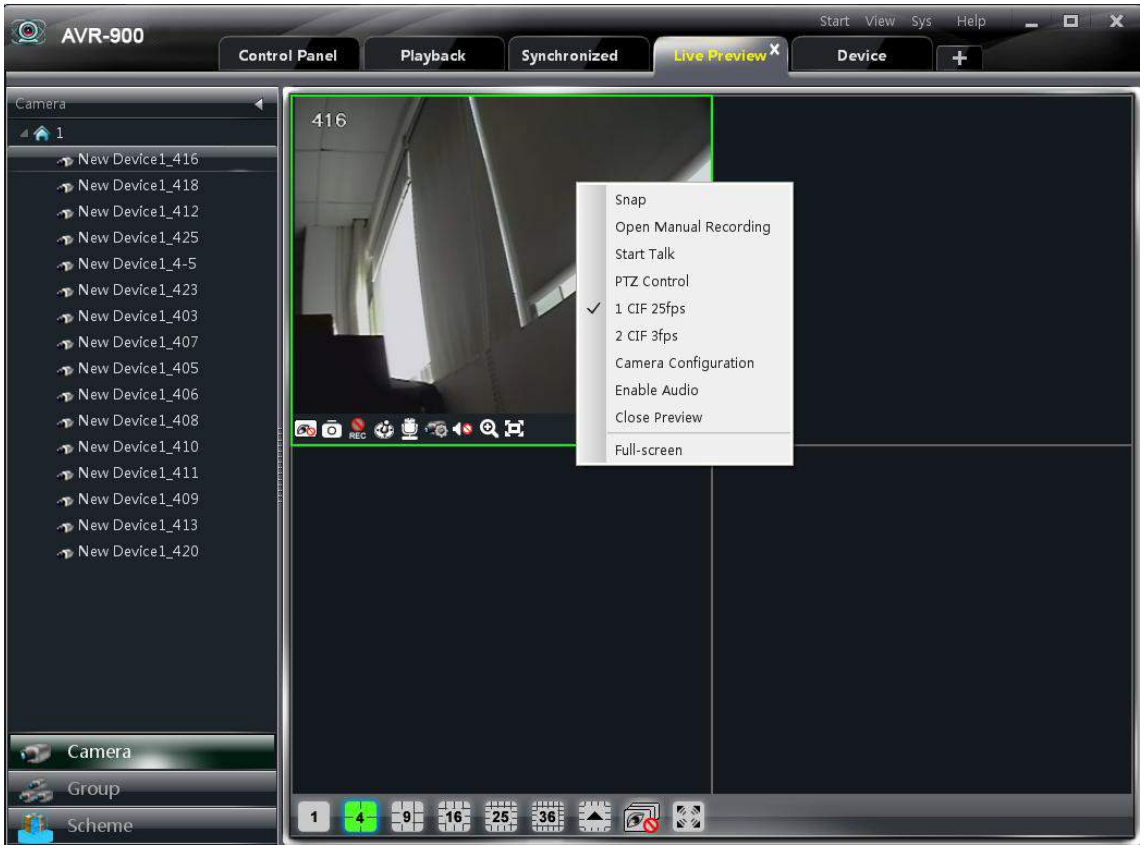
button to add the selected group to the scheme on the right.
- Check group under scheme on the right and click

button to remove the group.

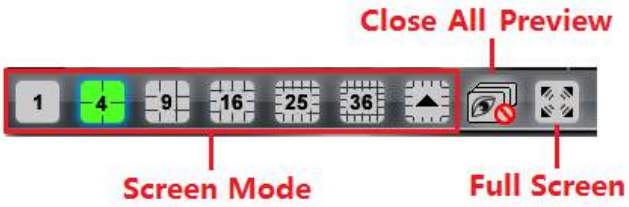


6 Live Preview

In the interface of control panel, click **"Live Preview"** to enter the interface:



Buttons description of live preview:



Toolbar on the display window:

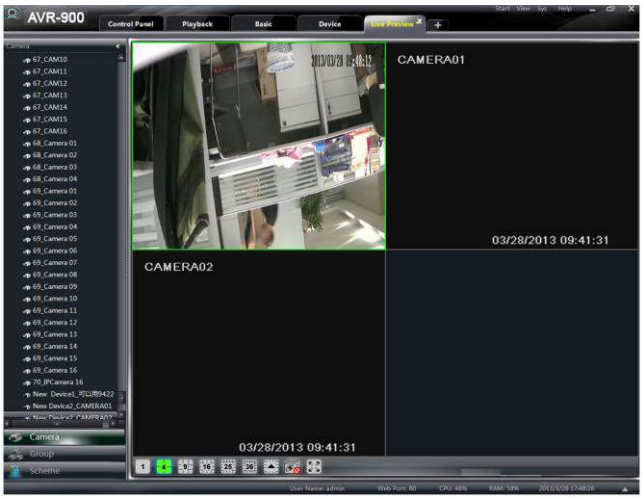
Icon	Description	Icon	Description
	Close image		Snap
	Start/stop manual record		PTZ control. Clicking the icon will display the control panel of PTZ.
	Start/stop talk		Camera configuration
	Open/close audio		Zoon in
	Fit to window		

Right button functions:

Menu	Description	Menu	Description
Snap	Snap picture	**Open Manual Recording**	Start manual record
Start talk	Start or stop talk	**Camera Configuration**	Enter the interface of the area and Camera configuration
Stream	Choose stream to view.	**PTZ Control**	To display the control panel of PTZ
Enable Audio	Enable or close audio	**Close Preview**	Close single channel preview
Full Screen	To display in full screen		

6.1 Preview

6.1.1 Monitory Point Preview



To start the live preview, drag the cameras from the list to the right display window or select a window and double-click the camera to display the live image.

You can drag the image to any window at random.

Note: Node unfold rule: After the first time for setting the device and area, you shall obey the following rule to view all tree nodes: when the tree node is more than 64 nodes, the system will unfold the upper node by default.

For example: A (There is camera group AC under A; sub-area a under AC; camera group ac under sub-area a). If the nodes number is more than 64, A will be unfolded and AC will be displayed, but a will not be unfolded and ac will not be displayed. If the node number of A is less than 64, A will be folded and all nodes need to be unfolded manually.

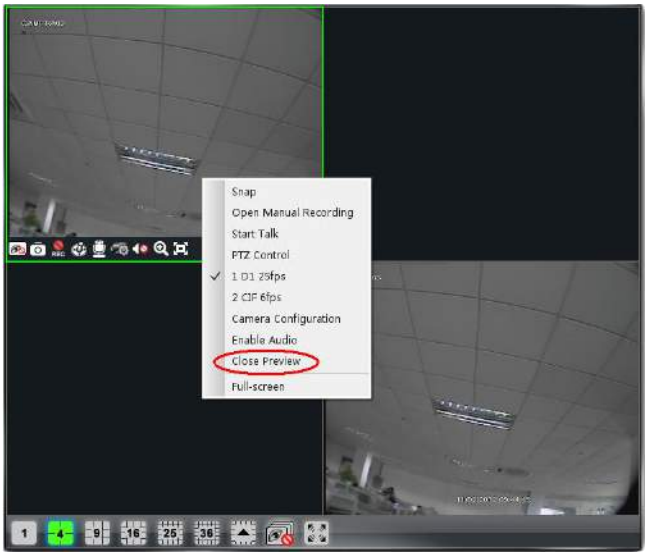
6.1.2 Stop Preview

➢ **Close Preview of Channel**

Place your mouse on the window to display the menu toolbar, then click icon to close preview of this channel.

➢ Close Preview by Right-clicking

Choose ***"Close Preview"*** by right-clicking the display window to close preview of this channel.



➢ Close All Preview

Click icon on the main menu toolbar to close all the windows.

6.2 Dwell Preview

After setting up group or scheme (Please refer to chapter 4 for creating group), enter to the live preview interface and click

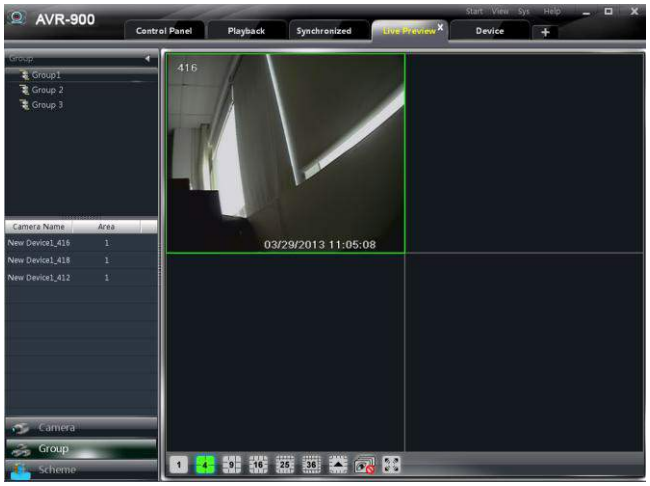
button to display the group list or scheme list. The below sections will introduce how to realize group dwell and scheme dwell.

6.2.1 Group Dwell Preview

➢ Start Group Dwell

In the interface of live preview, click

shortcut on the left side to display the groups, drag a group under scheme to any window (icon stands for group). The cameras of this group will play one by one on this window at the set time.



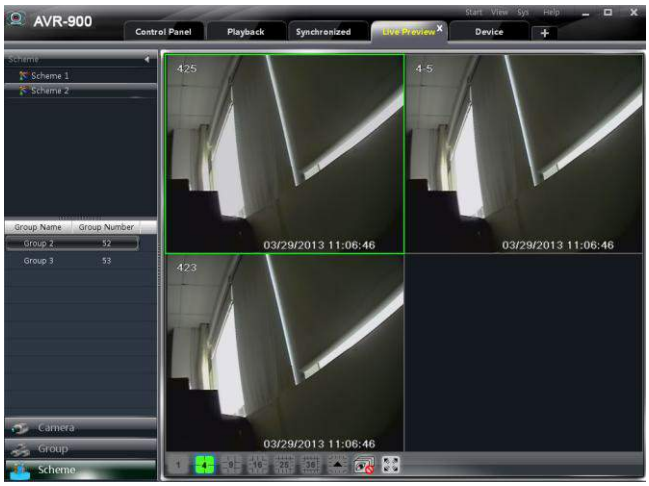
➢ Stop Group Dwell

Right click the display window to select "Close Preview" to close preview of this channel or click icon on the main menu bar to close all windows for stopping dwell.

6.2.2 Scheme Dwell Preview

➢ Start Scheme Dwell

In the interface of live preview, click Scheme shortcut on the left side and then drag a scheme to the right window to dwell (icon stands for scheme).The screen mode will be distributed automatically according to the number of camera under the group.



Note：To achieve dwell between devices, the device should be as a unit when adding groups. Then add all the groups into one scheme to dwell.

➢ Stop Scheme Dwell

Click icon to close all the windows for stopping scheme dwell.

6.3 Preview Control

➢ Full Screen

Click icon on the display window or right-click to choose “Full Screen” to view in full screen. Right click to choose “Exit Full Screen” to exit full screen preview.

➢ Single Channel in Full Screen

Double click the selected window to view in full screen. Double click again to recover the window.

➢ Stream of Live Preview

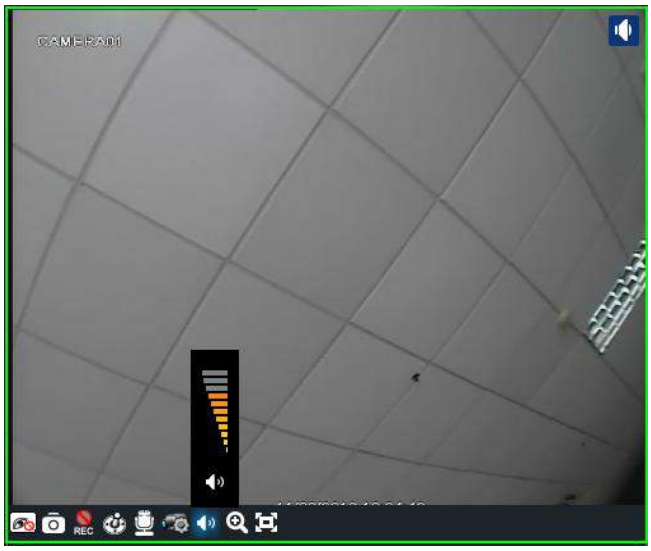
Right click on the display window to choose recording stream as shown on the right. The above stream is main stream (eg: D1 25fps) and the below is sub stream (eg: CIF 6fps).

Modify Device Stream: Click button on the display window to enter the Area and Camera Management interface. Click ***“Image Quality”*** under Image Setting to modify device stream. Please refer to section 3.3.2 Image Settings for details.

➢ Audio

Right click on the displaying window to choose "Enable Audio" or click icon to enable audio of this channel.

Note: Only one audio can be enabled at the same time. If enabling another channel's audio, the enabled audio will be closed automatically.



➢ Zoom In

Click icon on the toolbar in the displaying window to zoom in the image; click icon to recover the image.

6.4 Snap

6.4.1 Snap

Click button on the toolbar of the selected channel or right click to choose ***"Snap"*** to capture the pictures. After snapping pictures, a message prompt box will pop up to remind you the pictures are captured successfully and where the pictures are stored.

Note: Capturing pictures can be realized only in live preview or playback.

Message Prompt
16_14_07_161.bmp
Successfully capture picture. Picture path:C:\capture\New Device1_CAMERA03_2012_11_02_16_14_07_201.bmp
Successfully capture picture. Picture path:C:\capture\New Device1_CAMERA03_2012_11_02_16_14_07_241.bmp
Successfully capture picture. Picture path:C:\capture\New Device1_CAMERA03_2012_11_02_16_14_07_281.bmp

6.4.2 Snap Number

In the interface of control panel, click ***"Set Snap Default Number"*** under **Basic** to configure the number you want to capture every time.

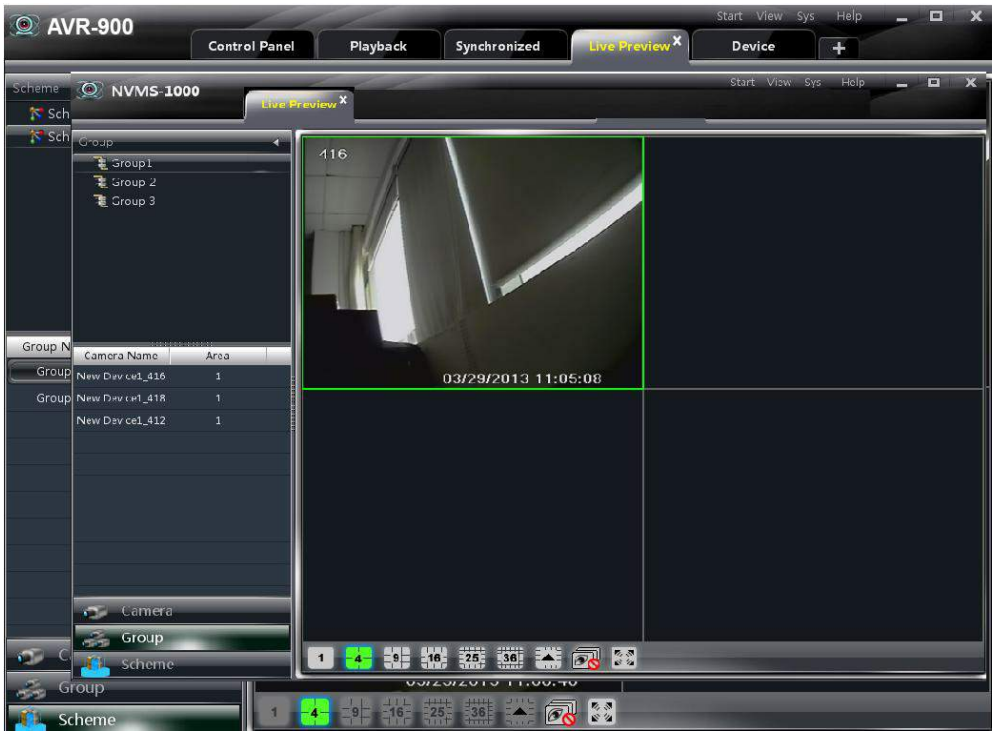
6.4.3 Record and Snap Path

In the control panel, click ***"Basic"*** to enter the interface. Click ***"Partition and Path"*** to select a folder to save the record files. Click ***"Set the Default Path of Snap"*** under Partition and Path to set up the path to save the snap files.

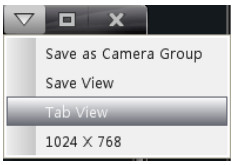
6.5 Multi-screen to Preview

In the interface of live preview, click button to plus a tab of live preview. Drag any tab of live preview or right click the tab of live preview to select "Float" to pop up a independent live

preview interface as below. Multi-screen to display can be realized by dragging the independent interface to other screen (graphics card should support multi-screen output at the same time).



Clicking the button of the live preview interface to choose “Tab view” can embed this tab in main interface.



Note：1. 20 live preview tabs can be added.

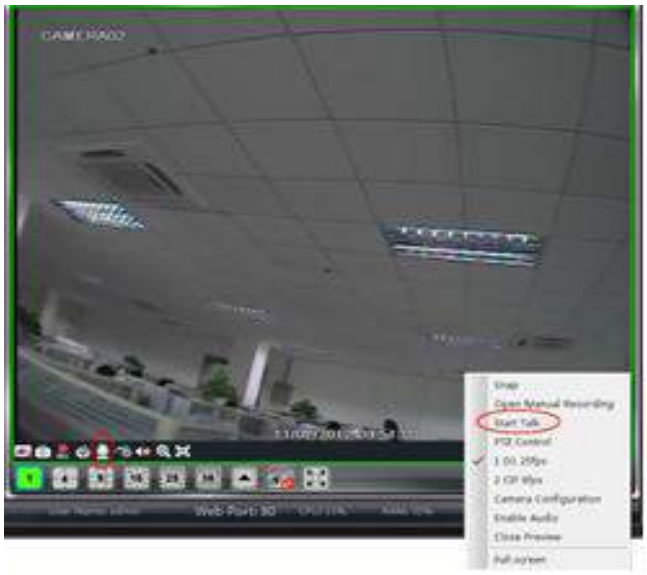
2. Live preview interface can be displayed on multiple screens.

6.6 Talk and Broadcast

6.6.1 Talk

Click button on display window or right click to pop up a menu bar. Choose “Start Talk” to enable bidirectional audio.

Note: Since AVR-T900 only allow opening one device’s talk at the same time, the system will stop talk with the current device for enabling new talk with another device which is launching talk.



6.6.2 Broadcast

① Click ***"System"*** on the menu bar of software at the upper right; choose ***"Broadcast"*** to enter the interface.

② Click

button to pop up a window; then check the devices you want to broadcast, click 【OK】 button to save the setting.

③ Click

button to stop broadcast.

6.7 PTZ Control

6.7.1 Parameter Configuration of PTZ

Please confirm the parameter of PTZ has been configured correctly before operating PTZ. Click icon in display window or ***"Change Camera Setting"*** under ***"Device"*** to enter the interface. Click ***"PTZ Setting"*** to enable PTZ and setup protocol, baud rate and address of PTZ.

Note: Here the protocol, baud rate and address of PTZ must be consistent with the PTZ decoder.

6.7.2 PTZ control

Return to the live preview interface after configuring parameter of PTZ; select the channel and click icon or right click to choose ***"PTZ Control"*** to open the control panel of PTZ.

- Click the direction buttons to control its rotational direction; drag the slider to control its speed.
- Click and buttons to adjust focus, iris and zoom.
- Select a preset point and click to operate this preset point or double click the preset point to operate it.
- Click【Cruise】button to list the cruises. Select a cruise and click button to cruise; click button to stop cruising.PTZ can also support track, auto scan, wiper and light function.

7 Record Management

AVR-T900 supports manual record, schedule record, motion detection record and sensor alarm record. This chapter will introduce the above four record types respectively.

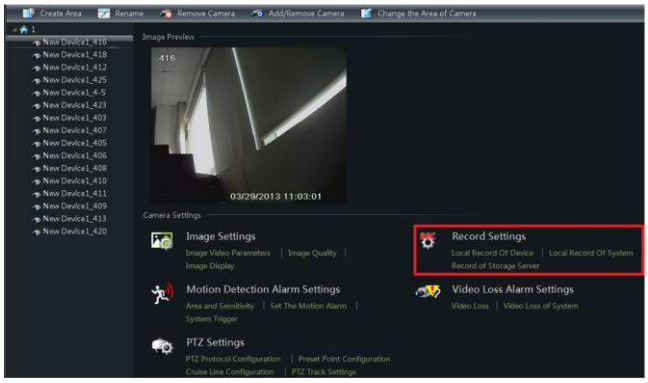
7.1 Manual Record

Select a channel and click REC button or right click to choose "Open Manual Recording" to start recording. Then click REC button or right click to choose "Close the Manual Recording" to stop recording.

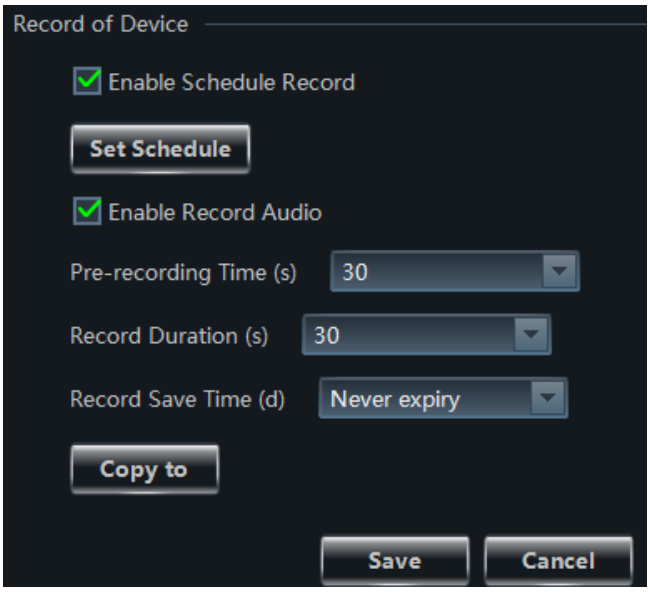
Note：If a channel is recording, closing preview will give rise to stopping it.

7.2 Schedule Record

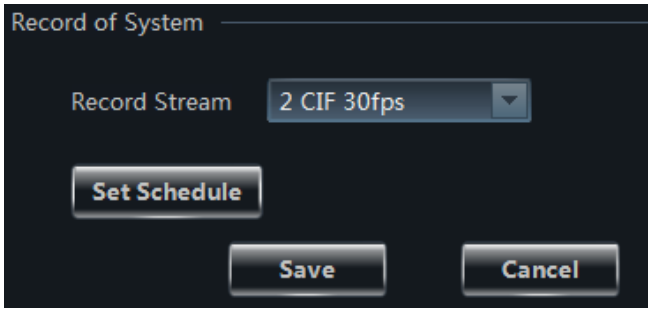
In the control panel, click ***"Change Camera Settings"*** under Device to enter the interface.



Select a camera and click ***"Local Record of Device"*** as shown on the right figure.
Enable Schedule Record and set schedule and pre-recording time, record duration, etc.

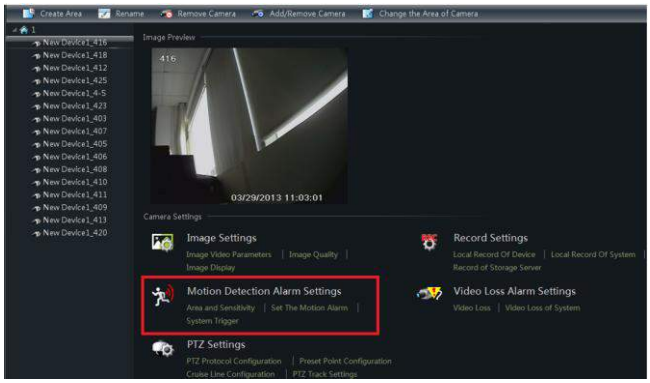


Click ***"Local Record of System"*** as shown on the right figure.
Under record of system , you can choose record stream and set record schedule.
Note: Please refer to section 3.2.2 for details.



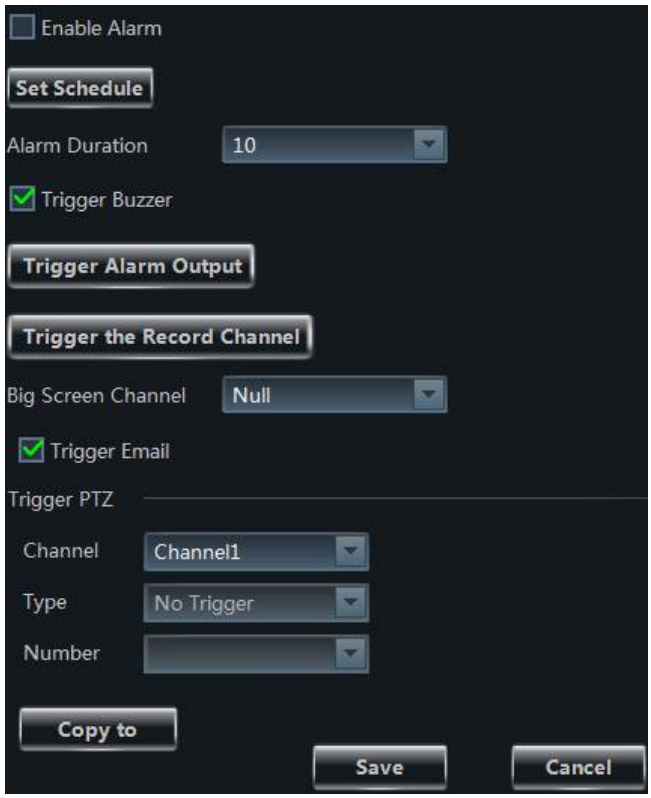
7.3 Motion Detection Record

In the control panel, click ***"Change Camera Settings"*** under Device to enter the interface.



Select a camera and click ***"Set Motion Alarm"*** under Motion Detection Alarm Settings as shown on the right figure.

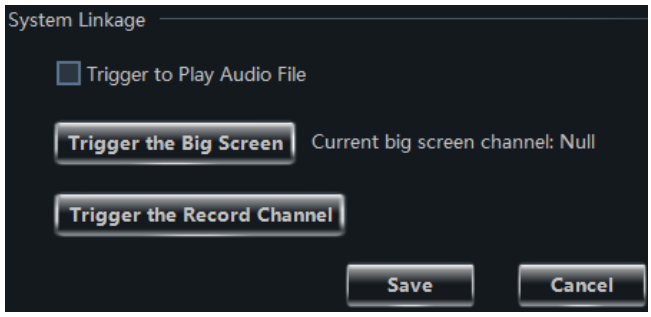
Enable Alarm of device and set the relevant trigger.



Click ***"System Trigger"*** under Motion Detection Alarm Settings as shown on the right figure.

Click

button to select channel. The selected channel whose motion detection alarm is triggered will be recorded automatically.

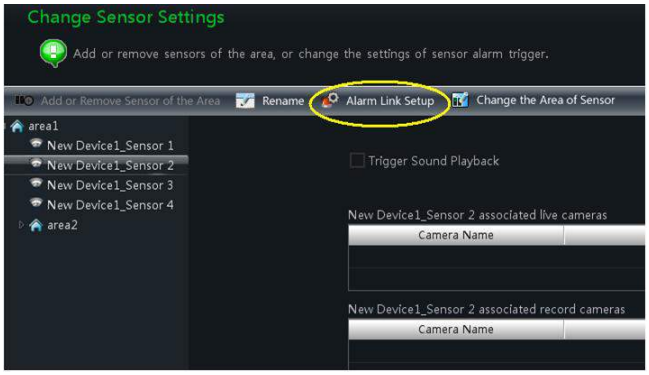


7.4 Sensor Alarm Record

In the control panel, click ***"Change Camera Settings"*** under Device to enter the interface.

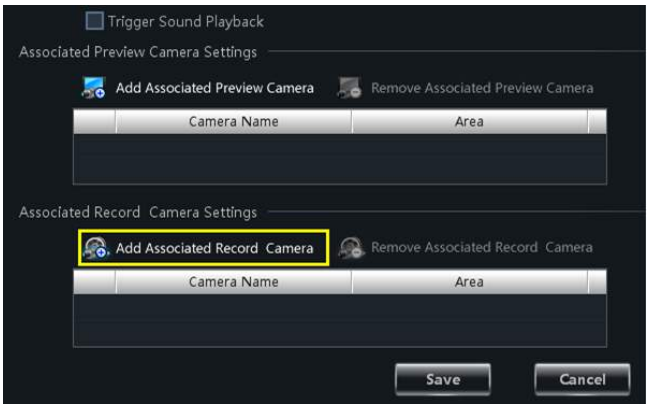
Select a sensor and click

button as shown on the right.



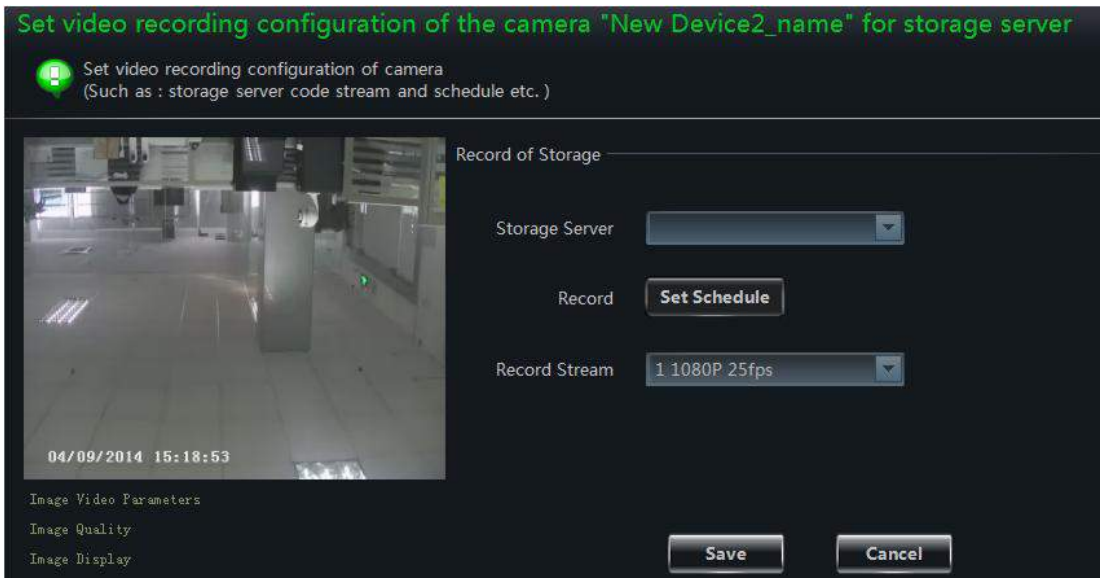
Click

button to choose associated record cameras. When the sensor alarm is triggered, the selected cameras will be recorded automatically.



7.5 Storage Server Record

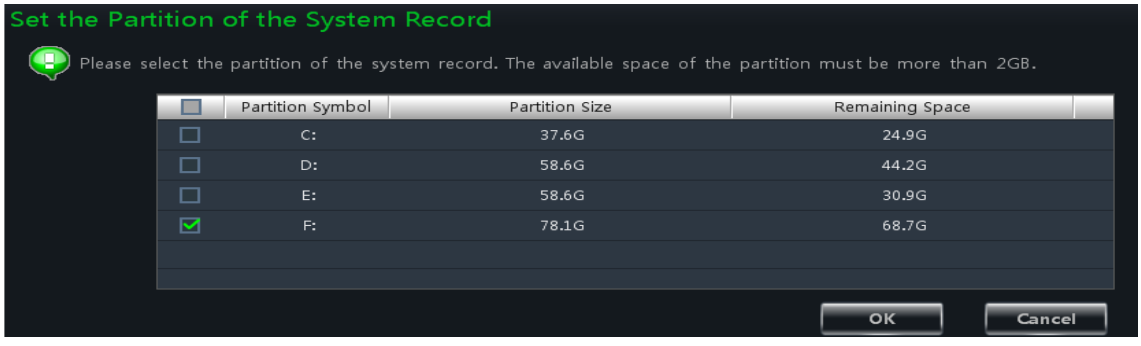
In the control panel, click “Change Camera Settings” under Device to enter Area & Camera Management interface, shown in Section 7.2.
Select a camera you want to setup, lick “Record of Storage Server” under Record Settings to enter the interface as follows:



In this interface, user can setup the record of storage server. First, choose the storage server you want to record, then setup the record schedule, please refer to section 3.3.2 about how to setup schedule, then set the record stream, click 【Save】button to save the settings.

7.6 Set Record Partition

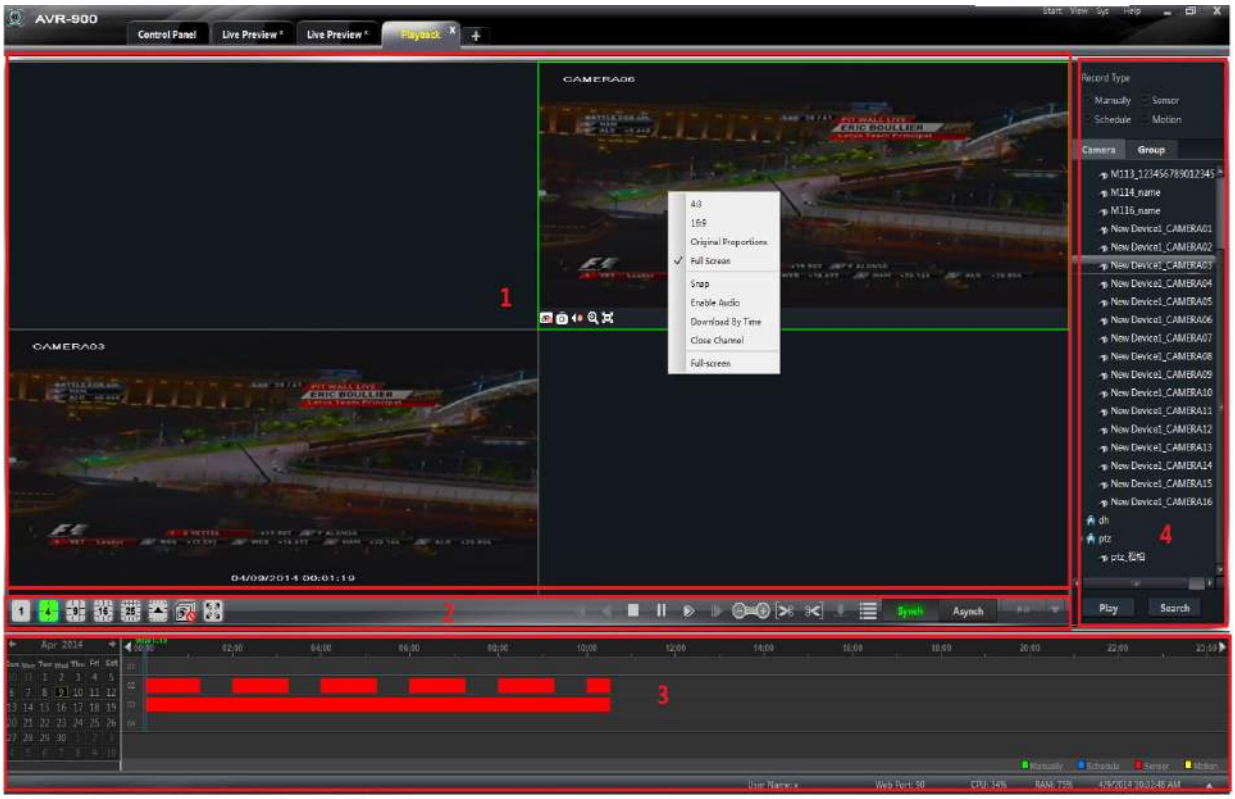
As the new video data getting more and more till it takes up all the partition space, to write data circularly, the new data will overwrite the old data. If you do not want the old data to be overwritten, you should change the record partition of the new data. In the control panel, click ***“Set Record Partition”*** under Playback as below. You can choose a partition for storing record.



8 Playback Management

In the interface of control panel, click **"Playback"** to enter the interface. You can play back the local stored record files.

Record playback interface has two types, one is synchronous, the other is asynchronous, we take the synchronous interface as an example.



Area Descriptions:

Area	Description	Area	Description
1	Playback Area	**2**	Toolbar
3	Record time Area	**4**	Resources Area, Time search or type search Area

Toolbar on Playback Window:

Icon	Description	Icon	Description
	Close playback		Snap
	Open/close audio		Zoom in
	Fit to window		

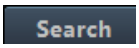
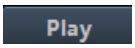
Buttons Description of Area 2

Icon	Description
	Screen mode. 1,4,9,16,25 channels are optional, you can get more screen mode by clicking .
	Close playback of all channels
	Full screen
	Retreat（Not support right now）
	Play backwards（Not support right now）
	Stop
	Pause
	Playback speed bar
	Playback by single frame. When playback, click button firstly and then click this button to play frame by frame.
	Forward 30s or backward 30s
	Backup the start time
	Backup the end time
	Download
	Event list. Click this button to pop up the event list
	Record playback model, synchronous or asynchronous
	Playback source setup, it can be set as local playback\remote playback\all playback。By clicking there will be a drop-down menu, in the menu, you can choose the playback source, stands for local playback, stands for remote playback, stands for all playback.

Right button functions:

Menu	Description	Menu	Description
4:3	4:3 proportion	**16:9**	16:9 proportion
Original Proportions	Recover to the original proportion	**Full Screen**	Full screen mode
Snap	Snap picture	**Enable Audio**	Enable or close audio
Download By Time	To download record by time search	**Close Channel**	Close single channel preview
Full-Screen	To display in full screen		

8.1 Playback

In the playback interface, select date, record type and the record storage location, the way to setup image storage location is: click button in on the toolbar of record playback interface, choose the location in the drop-down menu, to see the meaning of the icon in the menu please refer to the toolbar introduction above. Then drag the camera to the right display window for playing. You can click  button to search the record file, then click button or  button to playback.

Playback Record type includes manual record, motion detection record, schedule record, and sensor record.

In the timeline, green bar stands for manual record data; yellow bar stands for motion record data; blue bar stands for schedule record data; red bar stands for sensor record data.

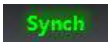
You can zoom in the time scale by clicking on the lower right corner; zoom out the time scale by clicking ;recover the time scale to 24 hours by clicking . When the time scale is zoomed in, you can drag the timeline to see the time spots.

8.1.1 Playback Synchronously

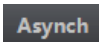
By clicking on the toolbar in the interface of record playback, you can switch the playback mode to synchronous mode. The synchronous playback interface is shown above.

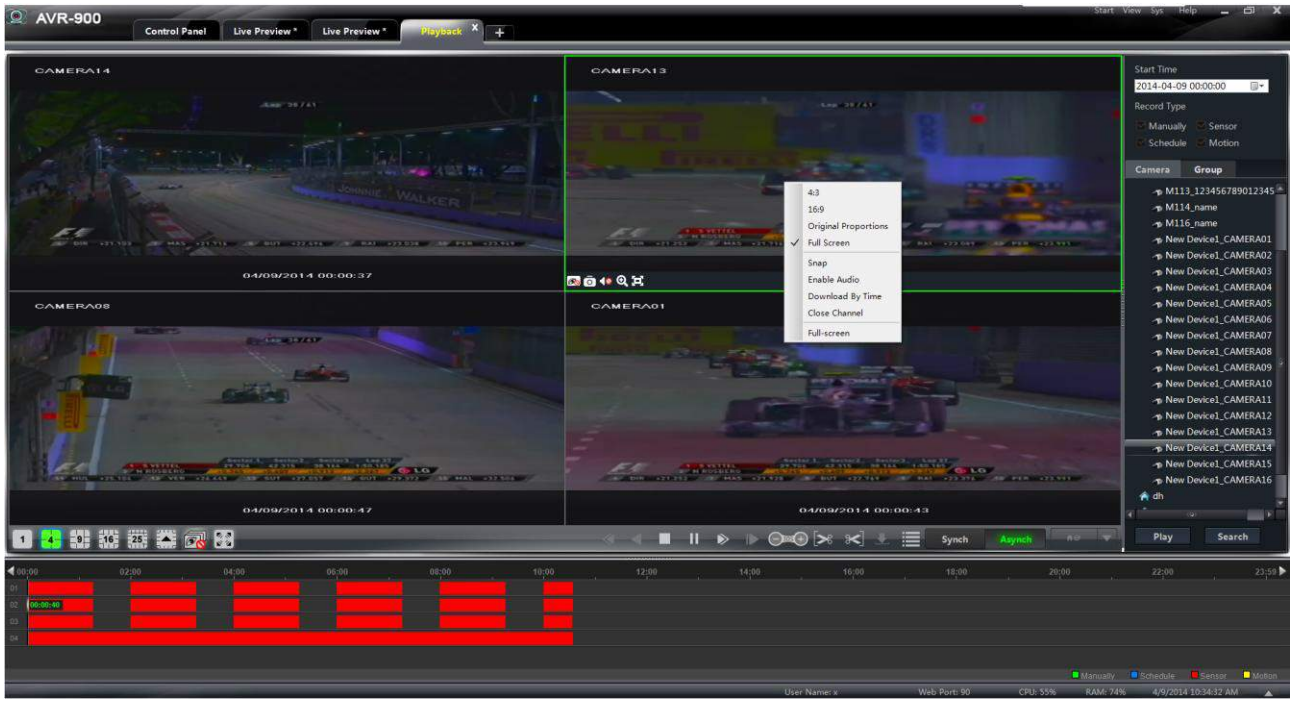
The meaning of synchronous playback is: in a certain time, all channels playback its record at the same time spot together, if one channel has no record data at this time spot, then this channel will be waiting.

When switched to synchronous playback interface, you can select the date, record type and record storage location, then you can play the record data according to the ways introduced in section 7.1.

In synchronous mode, one camera can only have one play window, so we can view all cameras' record information at the same time. When playing record file in synchronous mode or asynchronous mode, clicking  or will be useless, only if you close all the playback window.

8.1.2 Playback Asynchronously

By clicking  button you can switch play mode to asynchronous mode. The asynchronous interface is as follows:



The meaning of asynchronous playback is : when playing some channels' record at the same time, each channel is independent from the others and each channel's playback time can be different.

When switched to asynchronous playback mode, you can select the date, record type and record storage location, then you can play the record data according to the ways introduced in section 8.1.

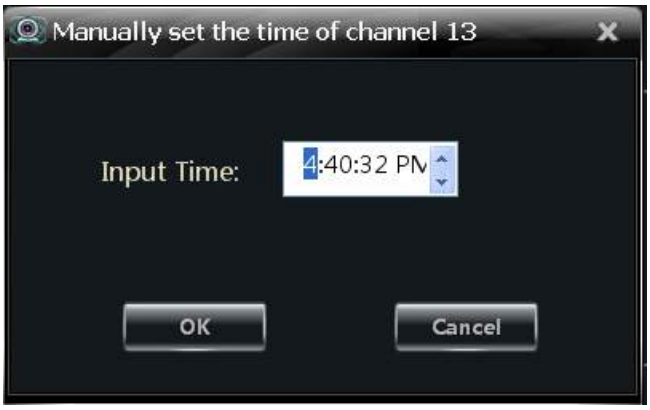
Note:

Asynchronous mode: remote playback and all playback source, due to the remote channel number restriction, generally one recorder can only playback up to 4 channels' record at the same time.

Synchronous mode: remote playback and all playback source, in this mode, it has no restriction in the playback channel number of one recorder at the same time, for example, a 16 channels' DVR can playback 16 channels' record at the same time.

8.1.3 Playback by Setting Time

Right click the color bar to select ***"Play time precise positioning of the channel X"***, then a dialog window pops up. Input time manually or click button to select time. The system will play the video from the time you set.



8.1.4 Playback by Searching Event

Click button to display the event list. Double click an event to play this event record.

Note: By clicking the timeline, you can choose a more accurate playback time. What's more, you may also change playback speed by dragging

bar.

8.1.5 Playback by Record Player

If your system has installed the previous version of NVMS1000 and you need to install the latest version, a prompt which telling you that you need to backup the video data of the previous version will show if the previous version has not been uninstalled before you install the new version. After successfully backup, you should uninstall the previous version manually and then install the new version. After you successfully installed the previous version, the icon of NVMS1000 and Record Player will show on the PC desktop. The Record Player is used to play the record data of previous version. The Record Player is useful for v2.1.5 only.

If you uninstall the previous version before you backup the record data, the Record Player will not show after you install the new version of NVMS1000 successfully.

8.2 Snap When Playback

Click button on the playing window to capture pictures. A message prompt will pop up after snapping.

8.3 Clip and Backup Record

8.3.1 Clip and Backup Record

When playing back record file, click button to set the start time; click button to set the end time. Then click button to download the video files within the configured time.

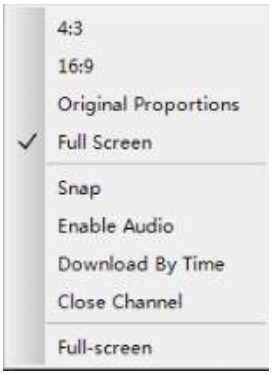
Note: The default path is C:\\backup.

8.3.2 Backup Path Configuration

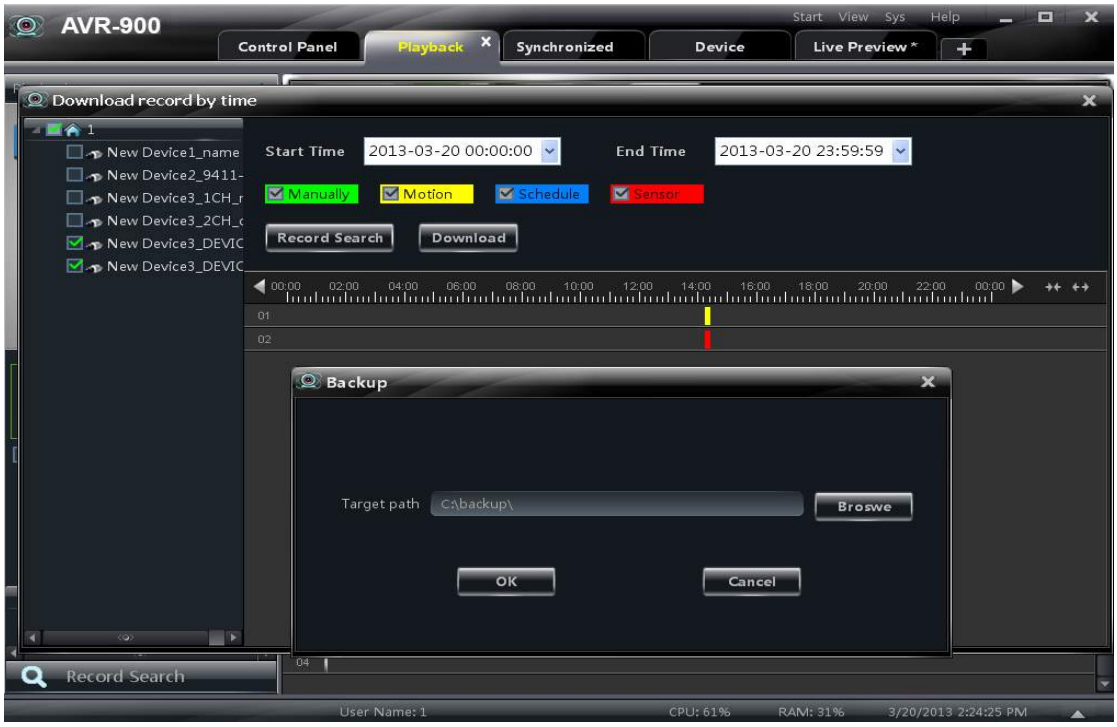
In the control panel interface, click **Basic** to enter the interface. Then click ***"Backup Path Settings"*** to choose path to save.

8.4 Download Record By Time Search

Right click the image in the playback interface to pop up a drop-down list as shown on the right.



Click "***Download By Time***" to pop up a window as follows:



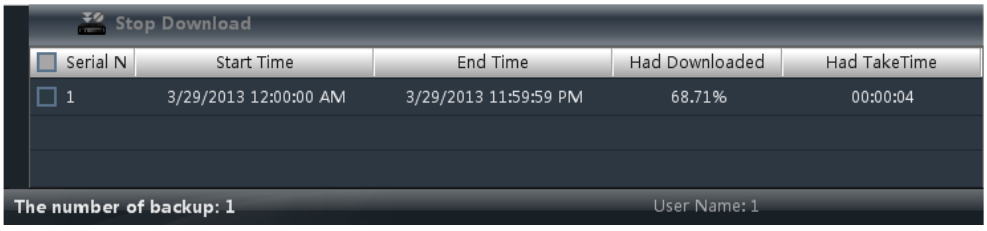
Select record channel, start time and end time, checkmark event type and then click【Record Search】button to search record information. After the information is searched, a backup information window will pop up by clicking【Download】button. Click【Browse】button to choose save path. Then click【OK】button to download record.

8.5 Download Record by Event Search

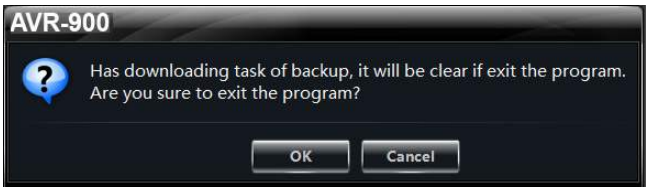
Click button to display event information list. Choose a event and right click to download this event.

8.6 View the Progress of Downloading

When starting downloading, you can view the progress of downloading and stop downloading manually by put the cursor on the lower right corner.



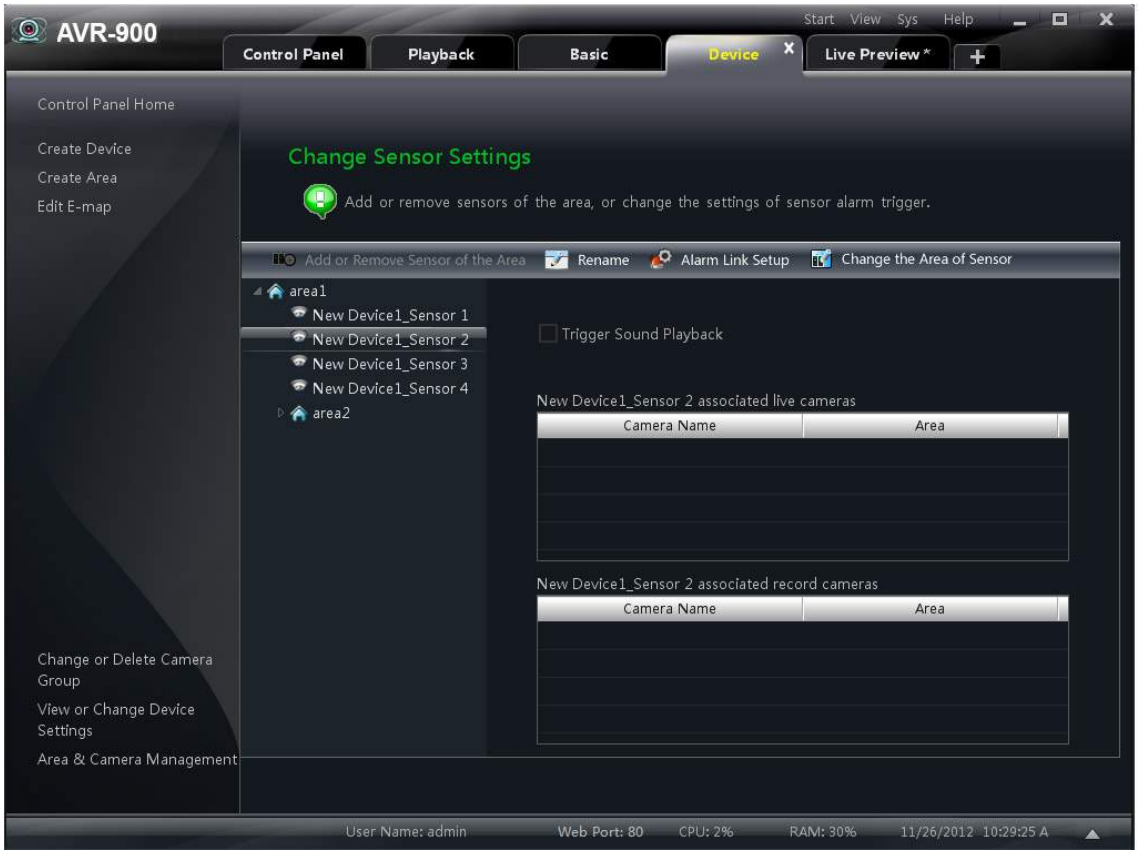
When a backup task is going, if you exit the software, a pop-up will be shown: "Has downloading task of backup, it will be clear of exit the program. Are you sure to exit the program?"



9 Alarm Management

9.1 Sensor Alarm

In the control panel, click **"Alarm Management"** to enter the interface.



➢ Add or Remove Sensor of the Area

In the interface of Alarm Management, choose an area, click

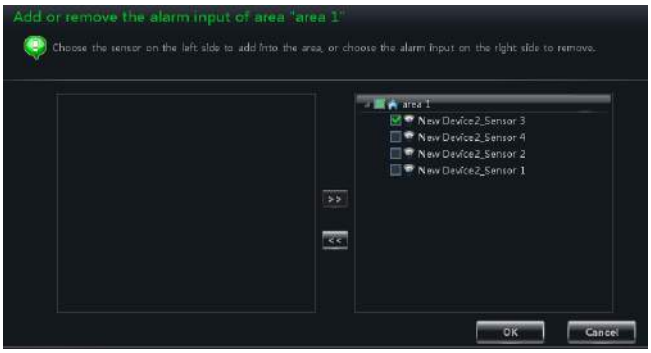
button to enter the interface.

① Check the sensor under the area on the right and click

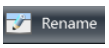
button to move out the sensor.

② Check the sensor on the left and click

button to add sensor.


Add or remove the alarm input of area "area 1"
Choose the sensor on the left side to add into the area, or choose the alarm input on the right side to remove.
area 1
New Device2_Sensor 3
New Device2_Sensor 4
New Device2_Sensor 2
New Device2_Sensor 1
>>
<<
OK
Cancel

➢ Rename or Change Area

In the interface of Alarm Management, choose a sensor and click 

button to change its name;

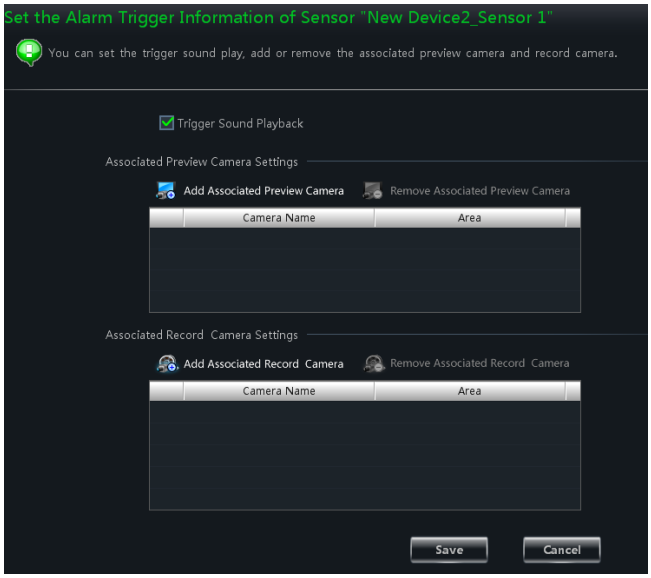
Click

button to change the area of sensor.

➢ Alarm Link Setup

In the interface of Alarm Management, choose a sensor and click Alarm Link Setup button to enter the interface.

If checking ***"Trigger Alarm Playback"***, there will be a sound like "beep" when sensor alarm is triggered.


Set the Alarm Trigger Information of Sensor "New Device2_Sensor 1"
You can set the trigger sound play, add or remove the associated preview camera and record camera.
Trigger Sound Playback
Associated Preview Camera Settings
Add Associated Preview Camera
Remove Associated Preview Camera
Camera Name
Area
Associated Record Camera Settings
Add Associated Record Camera
Remove Associated Record Camera
Camera Name
Area
Save
Cancel

◆ Add Associated Preview Camera

Click Add Associated Preview Camera to pop up a window; check cameras and click【OK】button to save the setting. When sensor alarm is triggered, the alarm preview and e-map preview will pop up automatically. Select the added camera, click Remove Associated Preview Camera to remove the camera.

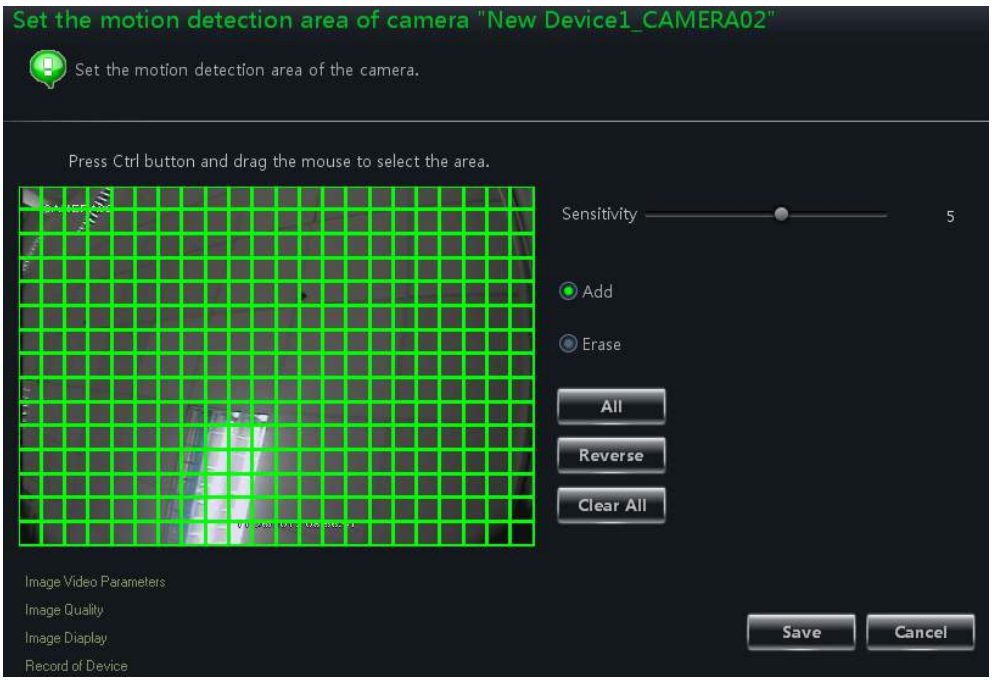
◆ Add Associated Record Camera

Click Add Associated Record Camera to enter the interface; check the associated cameras and click 【OK】button to save the setting. When the sensor alarm is triggered, the selected channels will be recorded automatically. Select the added camera, click Remove Associated Preview Camera to remove the camera

9.2 Motion Detection Alarm

In the control panel, click ***"Change Camera Settings"*** under Device.

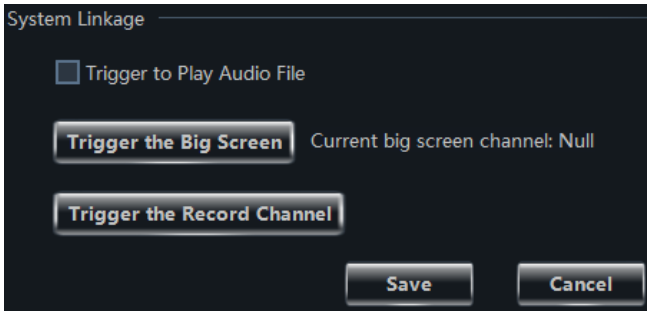
Select a camera and click ***"Area and Sensitivity"*** to enter the interface as below. You can adjust the detection sensitivity and setup the motion area.



Click "***Set the Motion Alarm***" to enter the interface as right.

Click ***"System Trigger"*** to enter the interface as shown on the right.

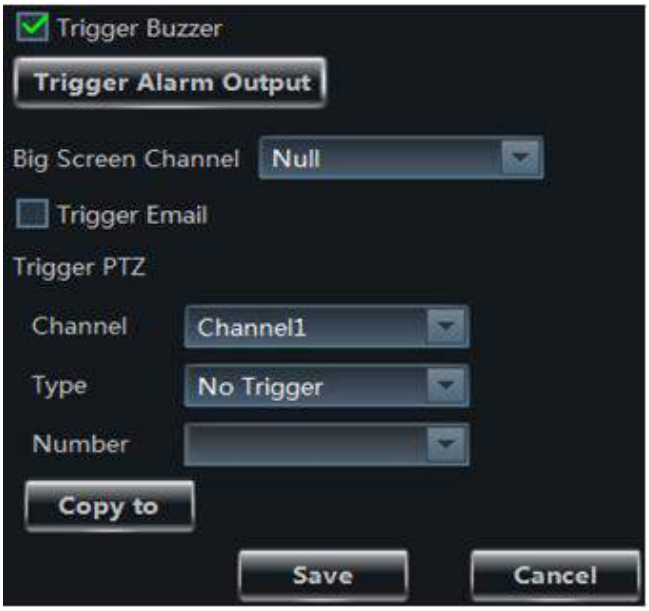
Note: Please refer to section 3.3.2 for details.



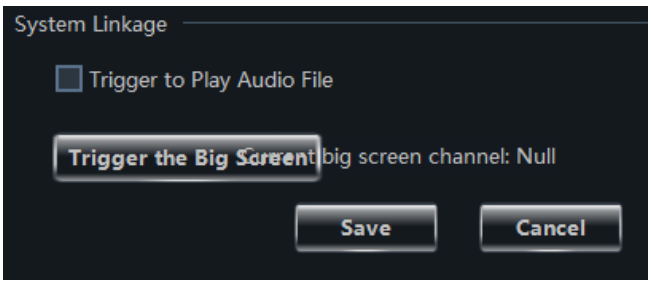
9.3 Video Loss Alarm

In the control panel, click ***"Area & Camera Management"*** under Device.

Click ***"Video Loss"*** to enter the interface. The steps of configuring video loss are the same with the device setting; please refer to the video loss chapter of device user manual.



Choose a camera and click "***Video Loss of System***" to enter the interface.
Please refer to section 3.3.2 for details.



9.4 Alarm Preview

The interface of alarm preview will automatically pop up if the relevant alarm page and alarm preview have been already configured.

9.4.1 Alarm Preview Configuration

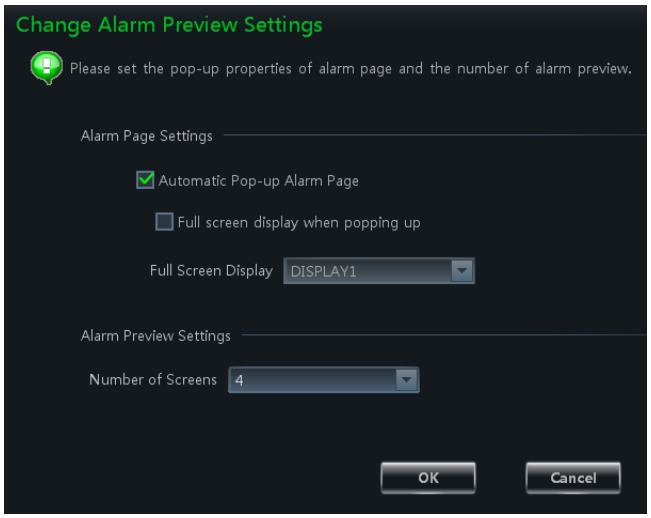
■ **Motion Detection Alarm:** In the control panel, click ***"Change Camera Settings"*** under ***Device*** to enter the interface. Select a camera, and then click ***"System trigger"*** shortcut under Motion Detection Alarm Settings to appear a window; click 【**Trigger the Big Screen**】 button under system linkage to select channel.

■ **Video Loss Alarm:** Click ***"Video Loss of System"*** to enter the interface; click 【**Trigger the Big Screen**】button under System Linkage to select channel.

■ **Sensor Alarm:** In the control panel, click ***"Alarm Management"*** to enter the interface. Click

button to add the associated preview cameras.

In the control panel, click "***Change Alarm Preview Settings"*** under Live Preview to pop up the window.



① Alarm preview will pop up automatically when alarm is triggered if checking "Automatic Pop-up Alarm Page".

② Alarm preview will pop up automatically in full screen when alarm if triggered if checking "Full Screen Display When Popping Up".

③ Choose a display monitor from the "Full Screen Display" drop-down menu. The alarm image will display on the designated monitor when alarm is triggered.

④ Choose the number of screen.

9.4.2 Alarm Preview

After configuring the alarm, the alarm preview will automatically pop up if the alarm of selected channels is triggered. The default pop-up window of system is independent interface. Please refer to the below figure.

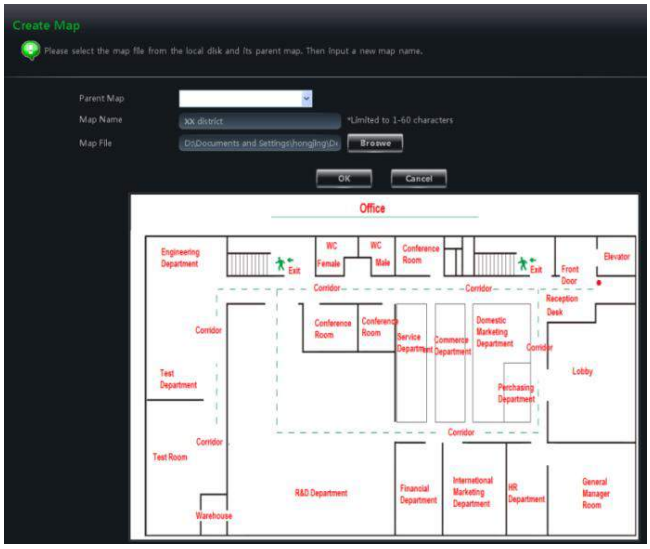
Click button on the upper right corner of the sub interface; then select ***"Tab View"*** to embed the sub interface in the main interface.

10 E-Map

In the control panel, click "**E-Map**" to enter the interface as below:

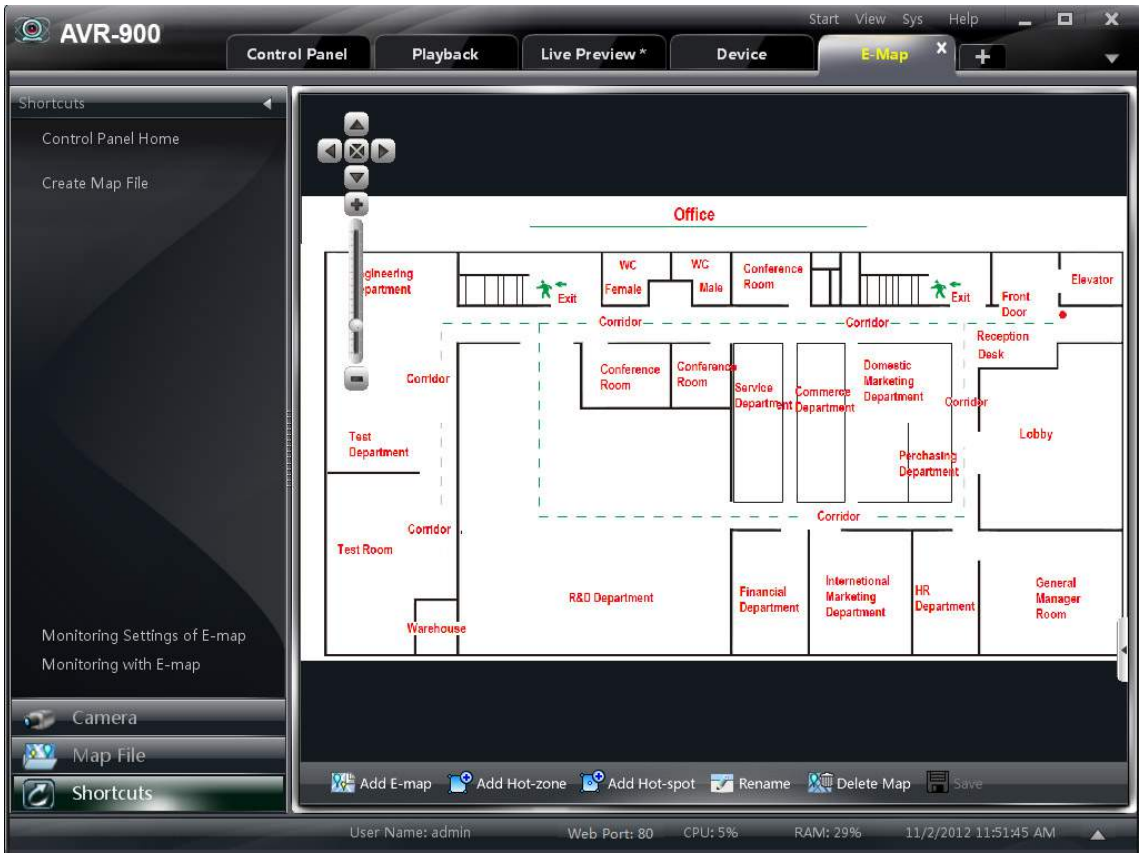
10.1 Create map

In the E-map interface, click 【Shortcuts】 button on the left side to appear the shortcut menu, then click ***"Create Map File"*** to enter the interface. Import a map and edit a name for it.



10.2 Modify or Delete Map, Hotspot and Hotzone

In the E-map interface, click ***"Edit E-map"*** on the left side to enter the interface.



10.2.1 Change or Delete Map

In the above interface, click ***"Map File"*** to appear the map files on the left side. Choose a map and click

to change a new name for it.

10.2.2 Add, Change and Delete Hotzone

➢ **Add Hotzone**

Click ***"Map File"*** and choose a map and then click

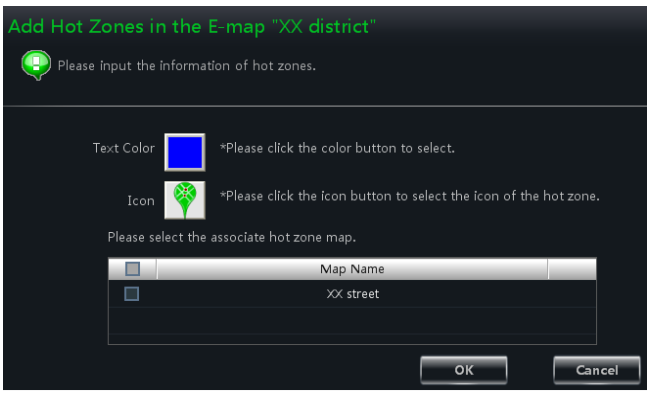
icon to pop up a dialog widow.

① Check a map related the hotzone

② Click to choose text color displaying under the hotzone icon.

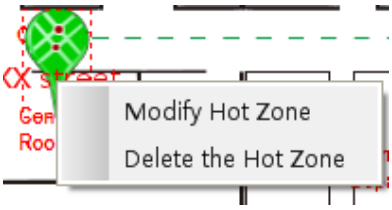
③ Click to choose icons for the hotzones.

After finishing, double clicking a hotzone will lead you to enter this map.


Add Hot Zones in the E-map "XX district"
Please input the information of hot zones.
Text Color
*Please click the color button to select.
Icon
*Please click the icon button to select the icon of the hot zone.
Please select the associate hot zone map.
Map Name
XX street
OK
Cancel

➢ Modify and Delete Hotzone

Right click a hotzone on the map. Choose ***"Modify Hotzone"*** or ***"Delete the Hotzone*** to change font color, icon or name or delete it.



10.2.3 Add, Change and Delete Hotspot

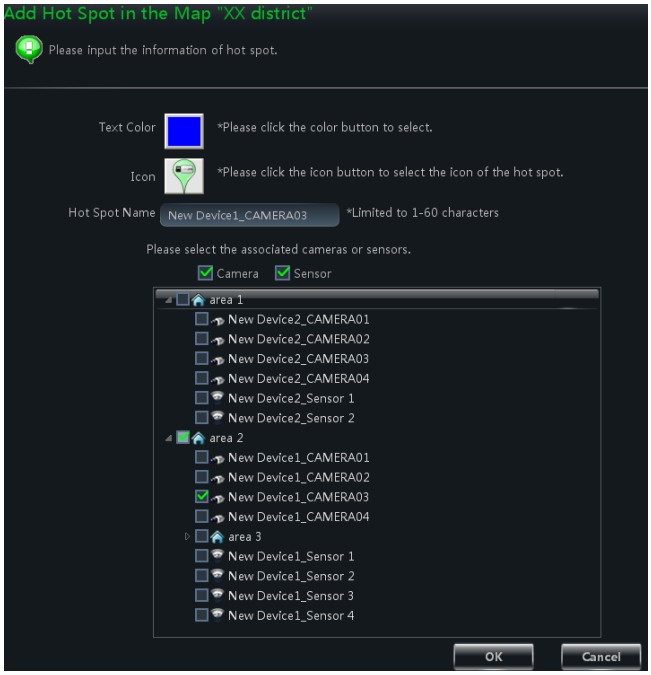
In the E-map interface, choose a map, click Add Hot-spot to enter the interface.

① Check associated cameras and sensors

② Click to choose text color displaying under hotspot.

③ Click to choose an icon for the hotspot

④ Edit a name for the hotspot.



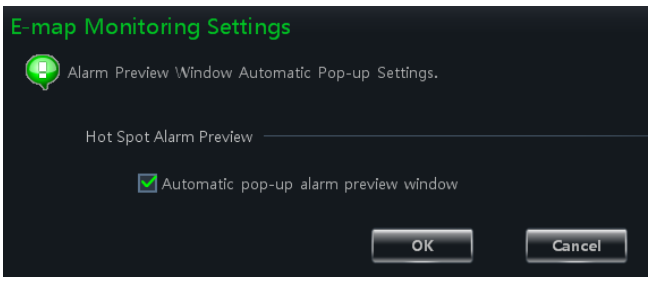
There is another way to add hotspot.

Select a map and double click the camera, or drag the camera to the map for adding hotspot.

Note: The hotzones or hotspots will focus on the map in the same position after being added. You should drag them to the corresponding positions on the map. Click Save to save the settings.

10.3 E-map Monitoring Settings

In the E-map interface, click ***"Monitory Settings of E-map"*** on the left side to enter the interface.



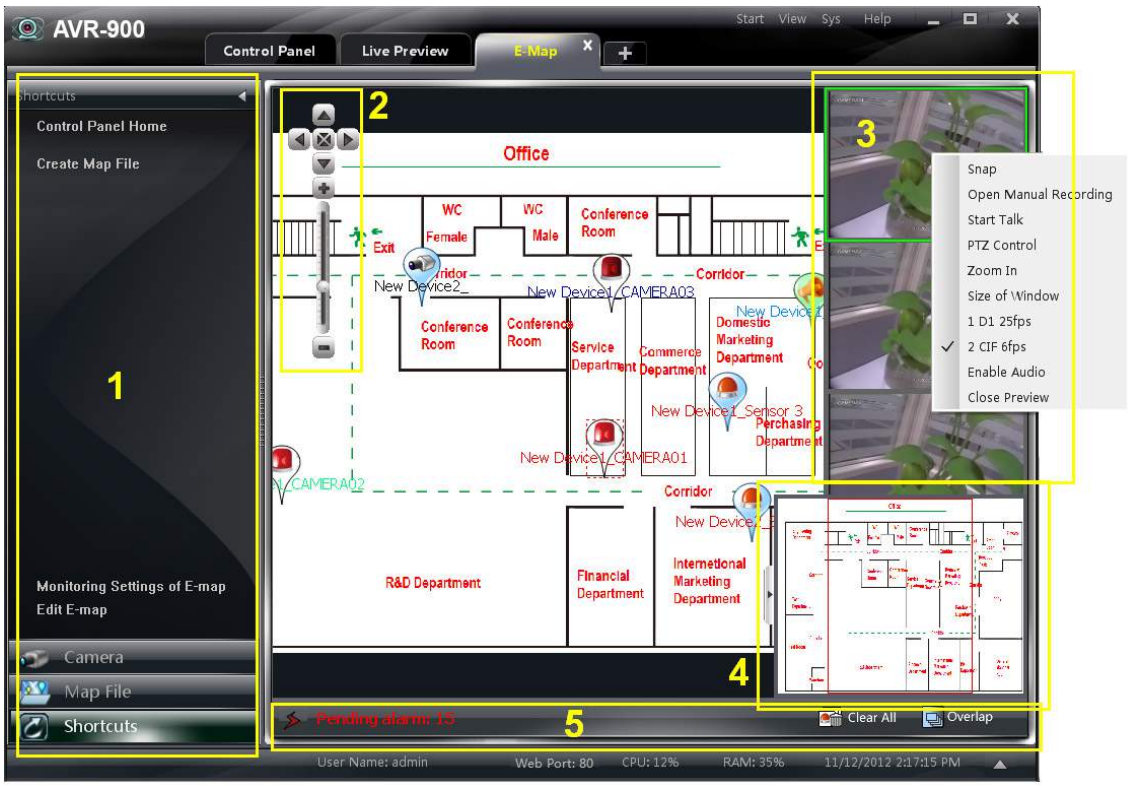
Check "Automatic Pop-up Alarm Preview Window" ,then click【OK】button to save the setting. If the configured hot spots raise the alarm, the preview image will pop up automatically

10.4 E-map live preview

In the E-map interface, click ***"Monitory with E-map"*** on the left side to enter the interface.

Note: If the item "Edit E-map" appears on the below of menu bar in the E-map interface, the current interface is monitory with E-map interface. Double clicking a hotspot will switch to the its map

The icon of hotspot will become a flashing light if this hotspot raises the alarm. What's more, there will be preview windows on the right side if you had checked "Automatic Pop-up Alarm Preview Window". Clicking the alarm preview image will switch to the map whose hotspot issues alarm.



Area Description:

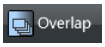
Area	Description
1	Menu bar
2	Zoom in/out the map
3	Alarm preview
4	Overall display of map(suppressible)
5	Alarm message prompts

Right Click on the Alarm Preview Window:

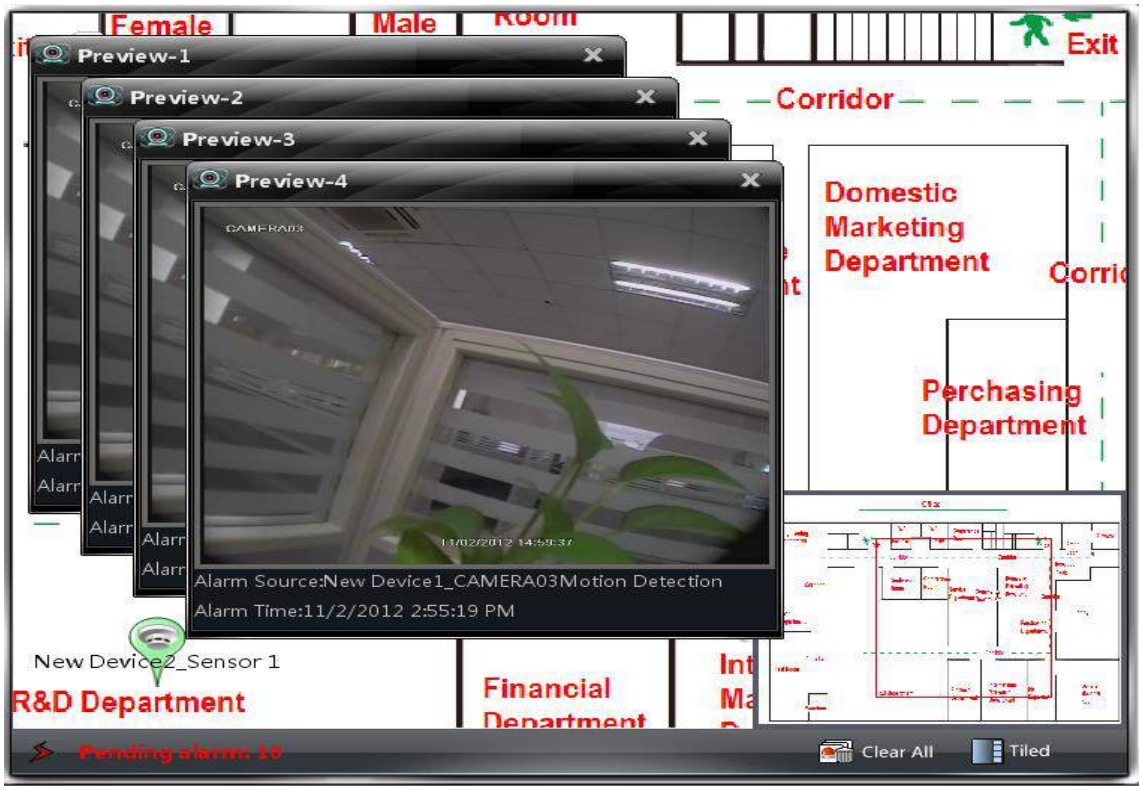
Item	Description	Item	Description
Snap	Picture capture	**Open Manual Recording**	Start manual record
Start Talk	Start talk	**PTZ control**	Click to display PTZ control panel
Zoom in	Zoom in the image	**Size of window**	Recover the image size
Stream	Choose stream to view	**Enable audio**	Enable audio
Close preview	Stop preview of single channel		

Click

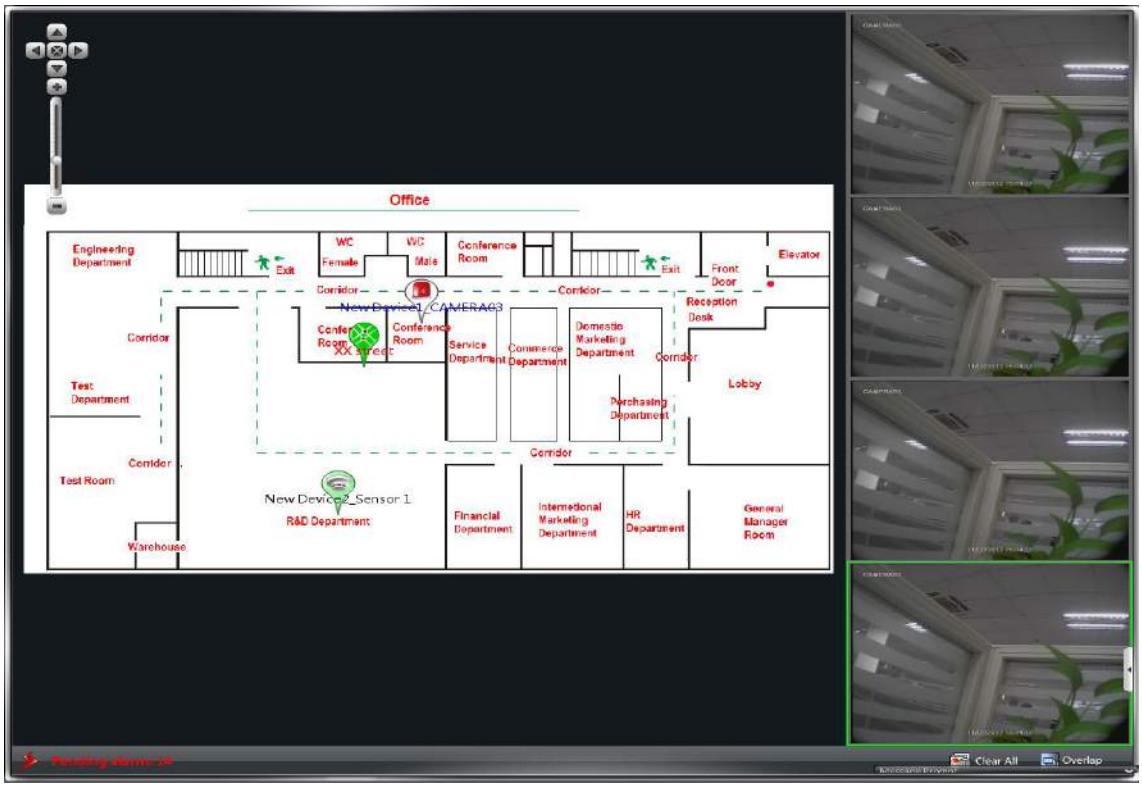
to clear all the number of alarm.

Click 

to make the alarm preview windows to overlap together. You can drag each window to view respectively.



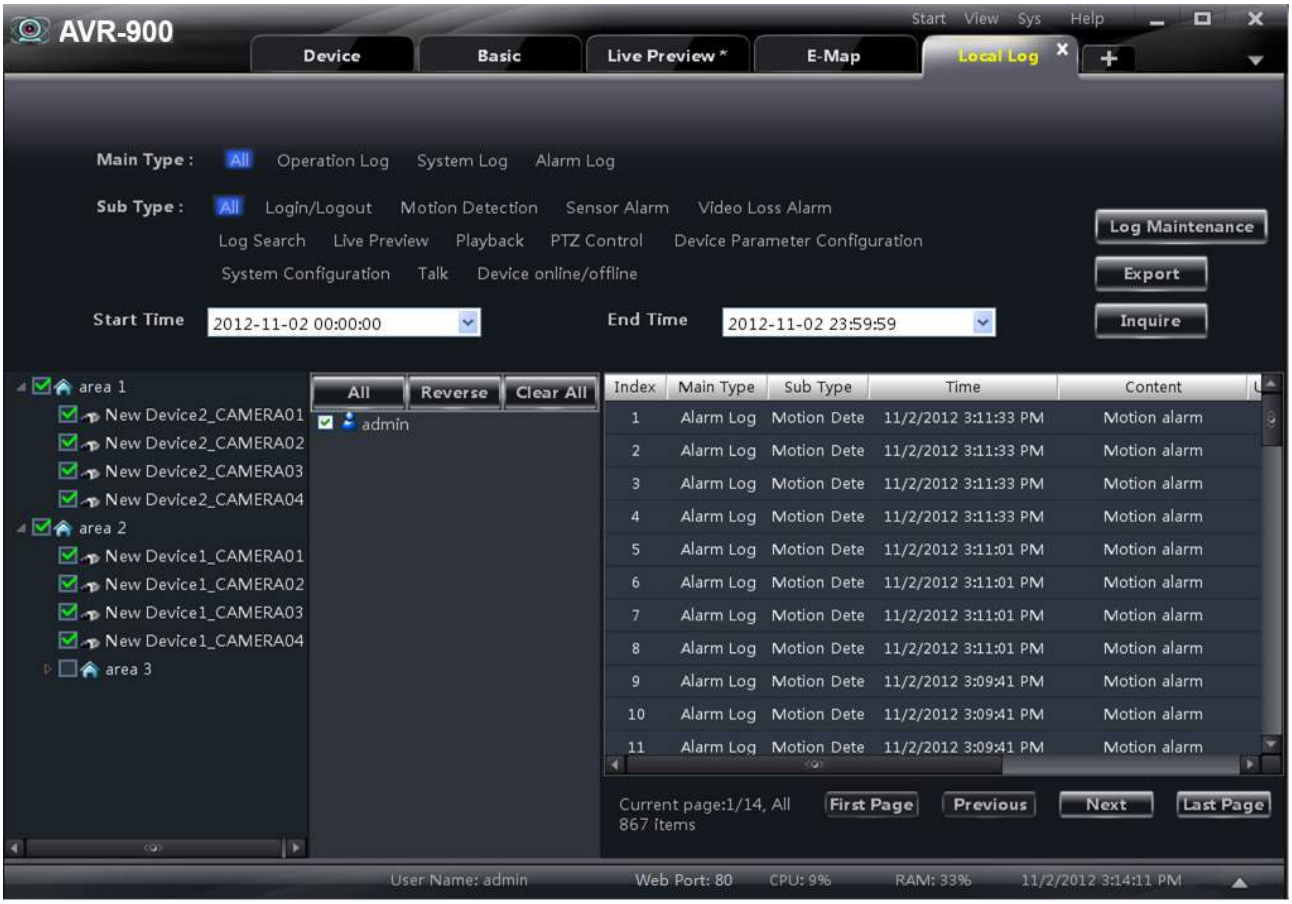
Click button to tile the alarm preview windows on the right side.



Right click on the map to pop up a menu bar. Choose “Full Screen” to view the image in full screen. Right click on the map to choose “Exit Full Screen” to exit.

11 Local Log

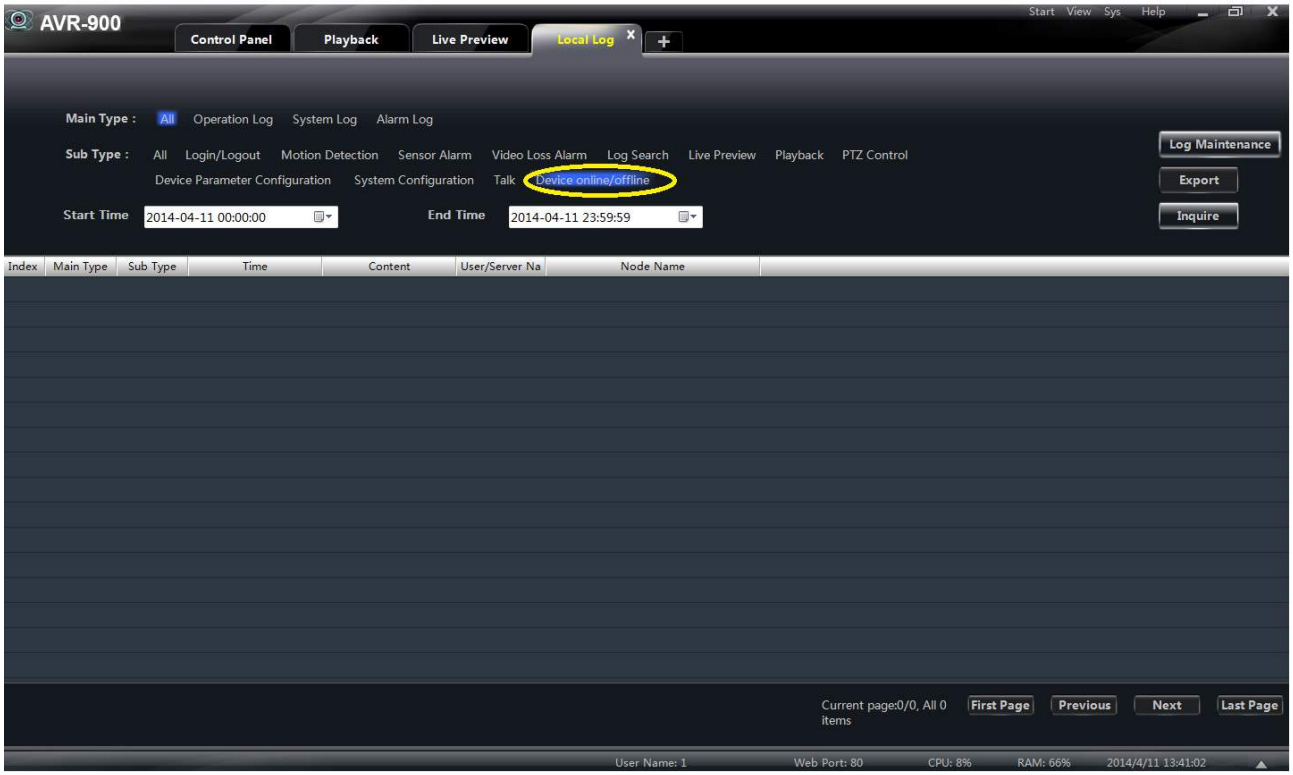
In the interface of control panel, click **"Local Log"** to enter the interface.


AVR-900
Start View Sys Help
Device
Basic
Live Preview *
E-Map
Local Log
Main Type : All Operation Log System Log Alarm Log
Sub Type : All Login/Logout Motion Detection Sensor Alarm Video Loss Alarm
Log Search Live Preview Playback PTZ Control Device Parameter Configuration
System Configuration Talk Device online/offline
Log Maintenance
Export
Inquire
Start Time 2012-11-02 00:00:00
End Time 2012-11-02 23:59:59
area 1
New Device2_CAMERA01
New Device2_CAMERA02
New Device2_CAMERA03
New Device2_CAMERA04
area 2
New Device1_CAMERA01
New Device1_CAMERA02
New Device1_CAMERA03
New Device1_CAMERA04
area 3
All
Reverse
Clear All
admin
Index Main Type Sub Type Time Content
1 Alarm Log Motion Dete 11/2/2012 3:11:33 PM Motion alarm
2 Alarm Log Motion Dete 11/2/2012 3:11:33 PM Motion alarm
3 Alarm Log Motion Dete 11/2/2012 3:11:33 PM Motion alarm
4 Alarm Log Motion Dete 11/2/2012 3:11:33 PM Motion alarm
5 Alarm Log Motion Dete 11/2/2012 3:11:01 PM Motion alarm
6 Alarm Log Motion Dete 11/2/2012 3:11:01 PM Motion alarm
7 Alarm Log Motion Dete 11/2/2012 3:11:01 PM Motion alarm
8 Alarm Log Motion Dete 11/2/2012 3:11:01 PM Motion alarm
9 Alarm Log Motion Dete 11/2/2012 3:09:41 PM Motion alarm
10 Alarm Log Motion Dete 11/2/2012 3:09:41 PM Motion alarm
11 Alarm Log Motion Dete 11/2/2012 3:09:41 PM Motion alarm
Current page:1/14, All 867 items
First Page
Previous
Next
Last Page
User Name: admin
Web Port: 80
CPU: 9%
RAM: 33%
11/2/2012 3:14:11 PM

11.1 Search log

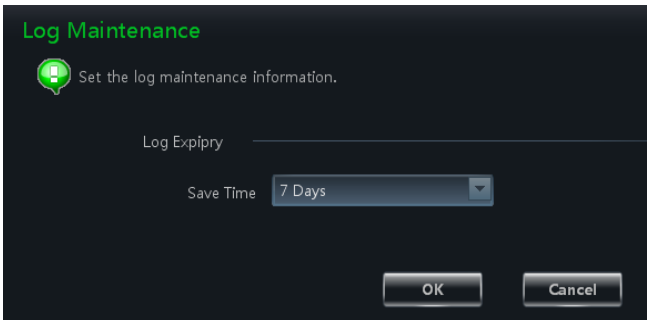
Choose main type, sub type , set the start time and end time, click【Inquire】button to search the relevant log information. click【First page】【Previous】【Next】【Last page】to view the information on different pages.

For example，you want to view the online/offline information of storage server, you can select Device online/offline under Sub Type in the interface above, then you can view the online/offline information of storage server.


AVR-900
Start View Sys Help
Control Panel
Playback
Live Preview
Local Log
Main Type : All Operation Log System Log Alarm Log
Sub Type : All Login/Logout Motion Detection Sensor Alarm Video Loss Alarm Log Search Live Preview Playback PTZ Control
Device Parameter Configuration System Configuration Talk Device online/offline
Start Time 2014-04-11 00:00:00
End Time 2014-04-11 23:59:59
Log Maintenance
Export
Inquire
Index Main Type Sub Type Time Content User/Server Na Node Name
Current page:0/0, All 0 items
First Page Previous Next Last Page
User Name: 1 Web Port: 80 CPU: 8% RAM: 66% 2014/4/11 13:41:02

11.2 Log Maintenance

In the log interface, click Log Maintenance button to pop up a dialog window. You can save the information of log for a certain time by configuration in this interface.



11.3 Export

In the log interface, click Export button, then choose a storage path to export the log information.

12 User Management

In the interface of control panel, click **"User Management"** to enter the interface.
There is only one super user registered by you when firstly log in the system. You can add several users and set right for them through the function of "Set Account Right".

12.1 Create a Resource with the Default Permission

In the above interface, clicking ***"Create a Resource with the Default Permission"*** means that permission of new resources will be given to all the users if you are going to create new resources.

12.2 Create, Change and Delete Users

➢ Create Account

In the interface of User Management, click Create Account to pop up a dialog window. Input account name and password. Choose account type and default right.
You can bind account by e-mail or telephone and add description if you wish.

Note:

- Two types of user: administrator and operator. Administrator enjoys all the system permissions

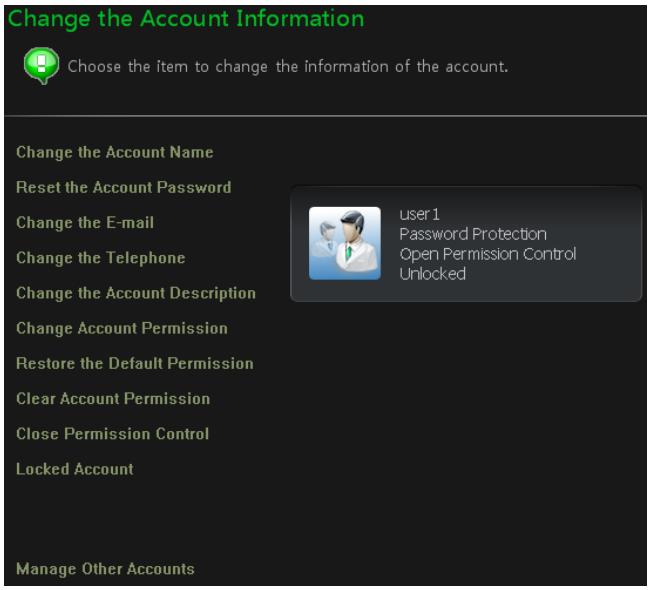
except account and permission management.

Operator only enjoy the permissions of broadcast, searching and exporting log

- If you have checked “Default Permission” under initial permission when creating new account, all the resource permissions and system permissions will be added for the user

➢ Change Account

In the interface of User Management, select a user and click Change button to enter the interface. You can change account name, password, e-mail address, etc. according to need.

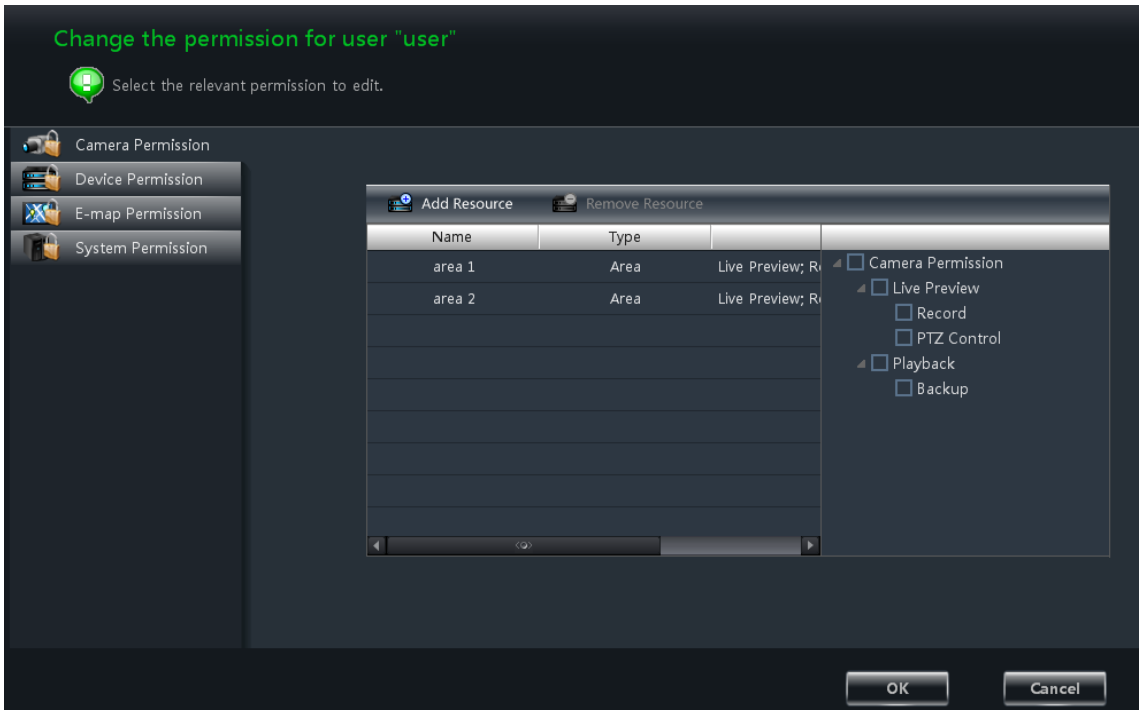


➢ Delete Account

In the interface of User management, select a user and click Delete button to delete it.

12.3 Account Right Configuration

In the interface of User Management, select a user, then click Set Account Right to enter the interface.

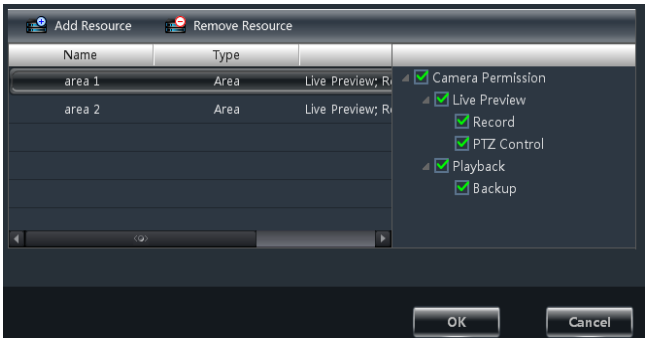


➢ Camera Permission

In the interface of Camera Permission, click

button to add resources, check camera permissions on the right.

You can add different permissions for different users.



➢ Device Permission

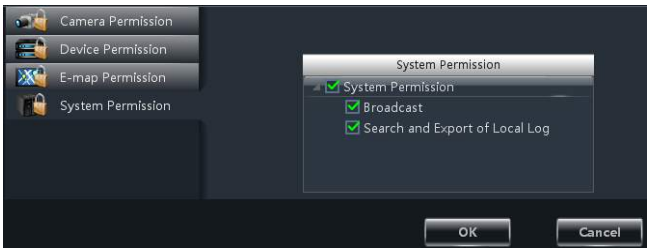
Click ***"Device Permission"*** to enter the interface. Select the right on the right hand you want to enjoy.

➢ E-map Permission

Click ***"E-map Permission"*** to enter the interface. Add map permission for the selected user.

➢ System Permission

Click ***"System Permission"*** to enter the interface, you can set the right of broadcast, searching log information and exporting it for the user you selected.



➢ Restore Default Permission

In the interface of account right management, select a user and click

to restore default permission of this user.

➢ Clear Permission

In the interface of account right management, select a user and click

to clear this user's permission.

13 Basic

In the interface of control panel, click **"Basic"** to enter the interface. System startup and maintenance, backup and restore will be introduced in this chapter. Partition and Path configuration have been introduced in the above chapter, there we do not repeat again.

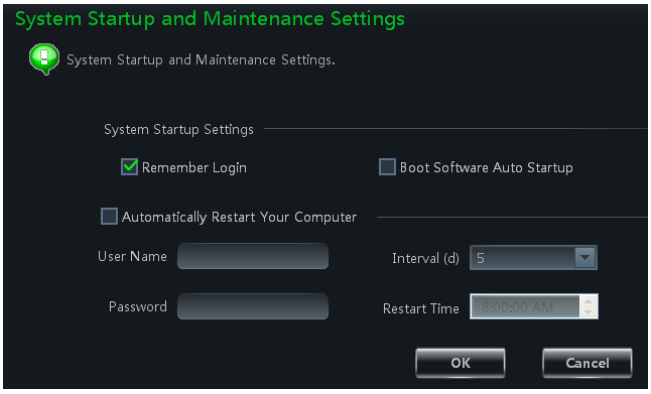
AVR-900
Start View Sys Help
Control Panel
Basic
Live Preview *
Control Panel Home
Change or Delete Device
Area & Camera Management
Partition and path
Set Record Partition | Path of Backup File | Set the Ddefault Path of Snap
System Startup and Maintenance
Set the Automatic Startup and Login | Operate System Maintenance
Backup and Restore
Backup System Config | Restore System Configuration Data
Set Account Permission
Change or Delete User Account
User Name: admin
Web Port: 80
CPU: 13%
RAM: 29%
11/2/2012 3:43:09 PM

13.1 System Startup and Maintenance

In the interface of Basic Configuration, click "***System Startup and Maintenance"*** to enter the interface.

Under the system startup settings, two ways to enable the software can be select.

If checking "Automatically Restart Your Computer", user name and password of the computer need to be input; time interval and restart time need to be selected.

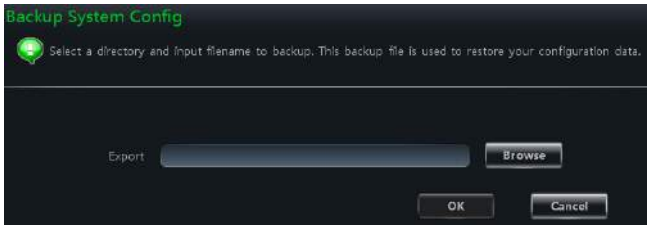


13.2 Backup and Restore

When upgrading the software to a new version, you should firstly export the data of the previous version and then import to the new version so that repeated addition and settings could be avoided.

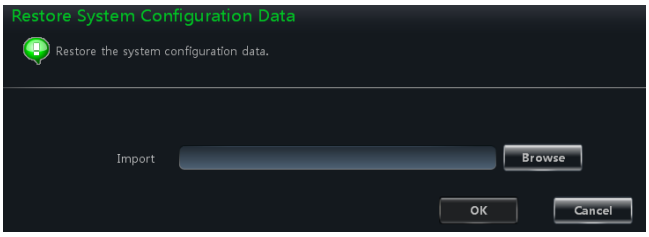
13.2.1 Backup System Configuration Data

In the interface of Basic Configuration, click ***"Backup System Configuration Data"*** to export the configuration data.


Backup System Config
Select a directory and input filename to backup. This backup file is used to restore your configuration data.
Export
Browse
OK
Cancel

13.2.2 Restore System Configuration Data

In the interface of Basic Configuration, click ***"Restore System Configuration Data"*** to import the configuration data.

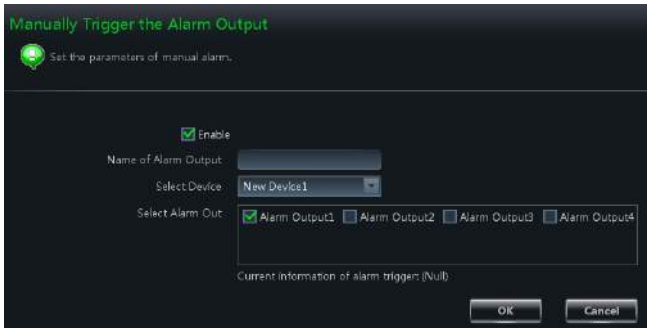


13.3 Manually Trigger the Alarm Output

In the control panel, click ***"Manual Alarm Output"*** under Basic Configuration to enter the interface.

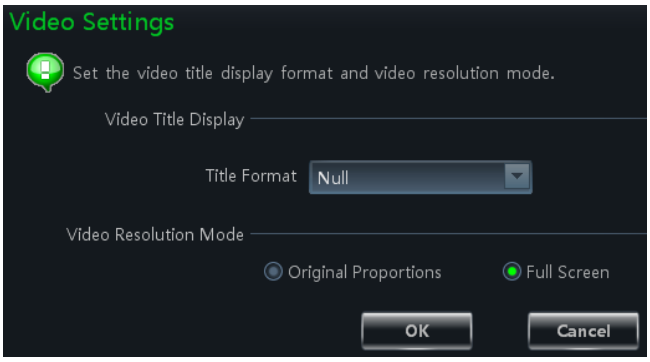
Check "Enable"; select a corresponding device and alarm output; then edit a name for it .

Then an icon will appear at the right bottom of the software. Clicking this icon will trigger the alarm of selected device.



13.4 Video Display Settings

In control panel interface, click "***Video Display Settings***" to set video title display and video resolution mode.



13.5 Batch Timing For Devices

Click "Batch timing for devices" under Basic in the control panel. You can batch timing for all the devices.

14 Web Client Login

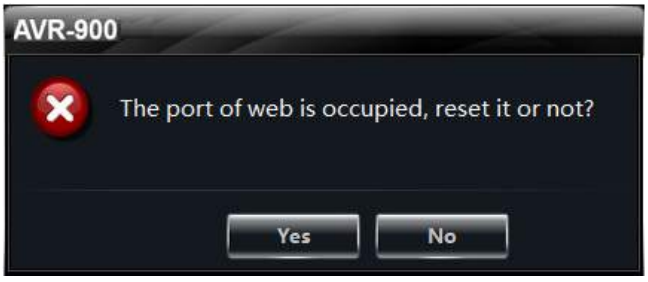
You can login AVR-T900 by web client, the default port number is 80. In web client, you can do live preview, record playback and so on. The browsers which the web client supports are as follows: IE7, IE8, IE9, IE10, IE11, firefox, google and opera. Here we take IE11 as example.

14.1 Login

The web client login has two types, LAN login and WAN login.

14.1.1 Change the Port of Web Client

The default port of web client is 80.A pop-up will be shown if you start AVR-T900 when port 80 is being used. The pop-up is shown at lower left, you can click "Yes" button to change the web port. The change interface is shown at lower right.



14.1.2 LAN Login

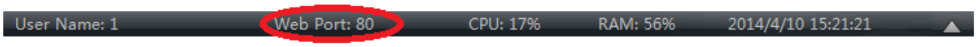
If you login AVR-T900 by LAN, you need to input the LAN IP address of your PC. If the web port is not 80,you need to add port number. Input the IP address in the browser, as is shown below:

14.1.3 WAN Login

If you login AVR-T900 by WAN, you need to map the LAN IP address into WAN IP address so as to login AVR-T900 web client. Please follow the steps below to do the port mapping:

Step 1: Obtain the LAN IP address of PC;

Step 2: Log into the management interface of the route by browser. Take TP-LINK route as an example. You should map the IP address and port of PC in the "virtual server" under "Forwarding Rules" in the route (Different route has different configuration, user can view the user manual of route for details).The port of PC can be seen in the bottom of AVR-T900 software. As is shown below:



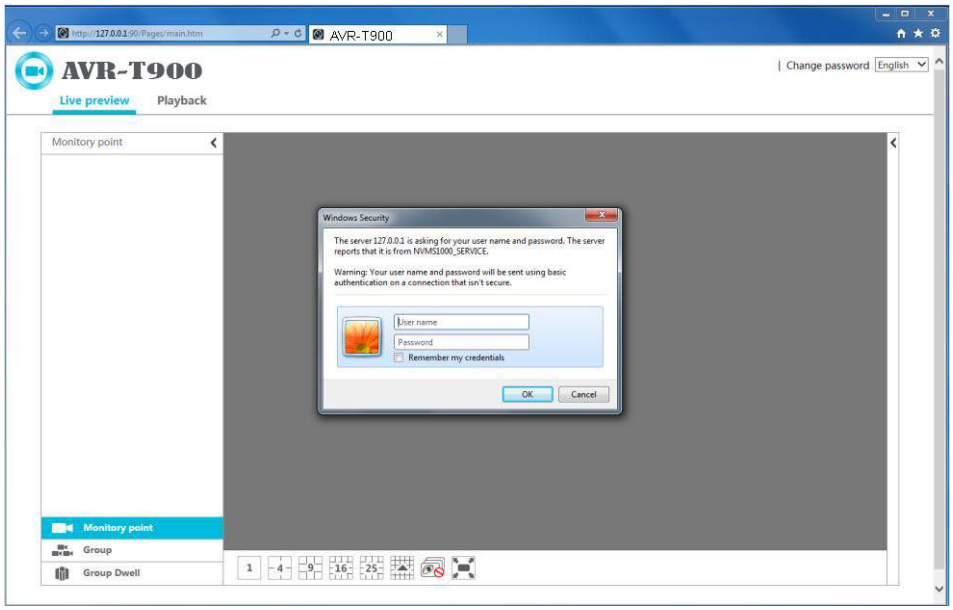
Step 3: After finishing port mapping, you can view the mapped WAN IP address through "Running State" in the route. User can login AVR-T900 web client directly by WAN IP address and HTTP web port (**When doing port mapping via WAN, you need to do mapping of port 6063, 6063 is**

used when the connection is ocx via WAN. Please refer to the above steps to see the way of 6063 port mapping.).

After port mapping is done successfully, you should input the mapped WAN IP address and port number in the browser to login.

14.1.4 The Download and Installation of Plugins

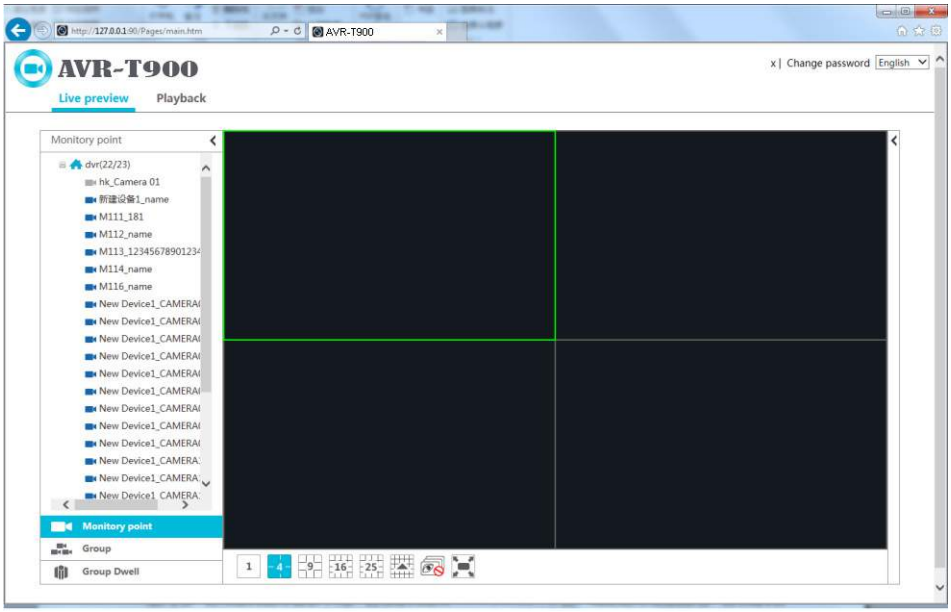
After you input the LAN IP address or WAN IP address, click “Enter” key to enter into the interface as below:



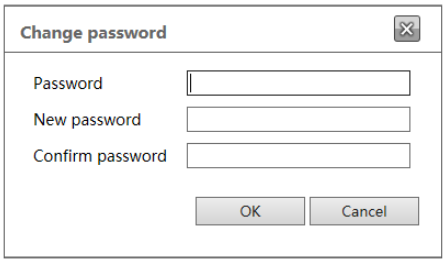
After you input the username and password, you can login the web client. The username and password is the same with the username and password you register in the PC software. The first time you login by browser, you will need to download and install some relative plugins so as to use live preview and record playback normally. Please download and install the plugins according to the tips in the interface.

14.2 Live Preview

After you download and install the plugins, the interface will be as below:



The “x” on the right top is the username. You can click “Change password” to change the password.

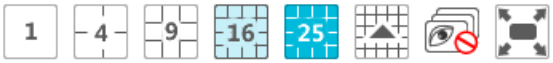


You can switch the language between Chinese and English by clicking 简体中文 English on the right top.

In the Live Preview interface, you can hide the left list column by clicking ‹ button on the left, then you can recover it by clicking › button.

Click the camera device you want to preview in the left column, the Surveillance video will be shown in the right of the interface. As is shown below:

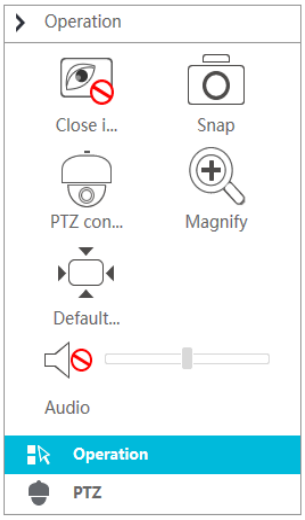
There are some functional buttons under the live preview window, as is shown on the right:

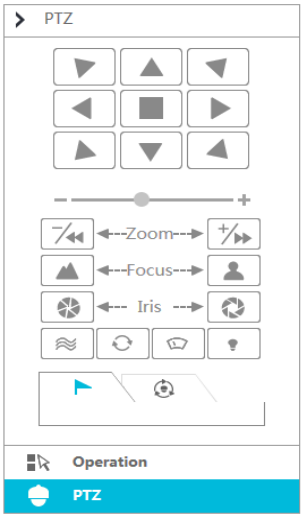


The function of each button is shown in the table below.

Button	Description
	Screen mode button
	More screen mode buttons will be shown by clicking it.
	Close all previews
	Full Screen

Click ‹ button on the right top of the interface, a window will be shown on the right, as is shown below. You can switch the interface between operation and PTZ by clicking Operation or PTZ .The PTZ interface is shown below. You can hide this interface by clicking › button.

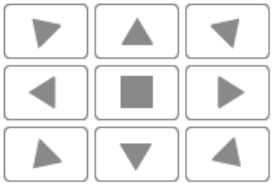
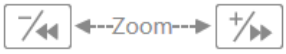
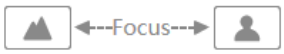
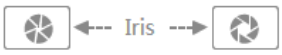




The functions of the buttons in the above left interface are as follows:

Button	Description
	Close single live preview window
	Single click to snap picture
	Single click to switch to PTZ interface
	Single click to zoom in the live preview picture
	Single click to recover the live preview picture to its original size
	Single click to cancel silent mode and adjust the volume, single click once again to set silent mode

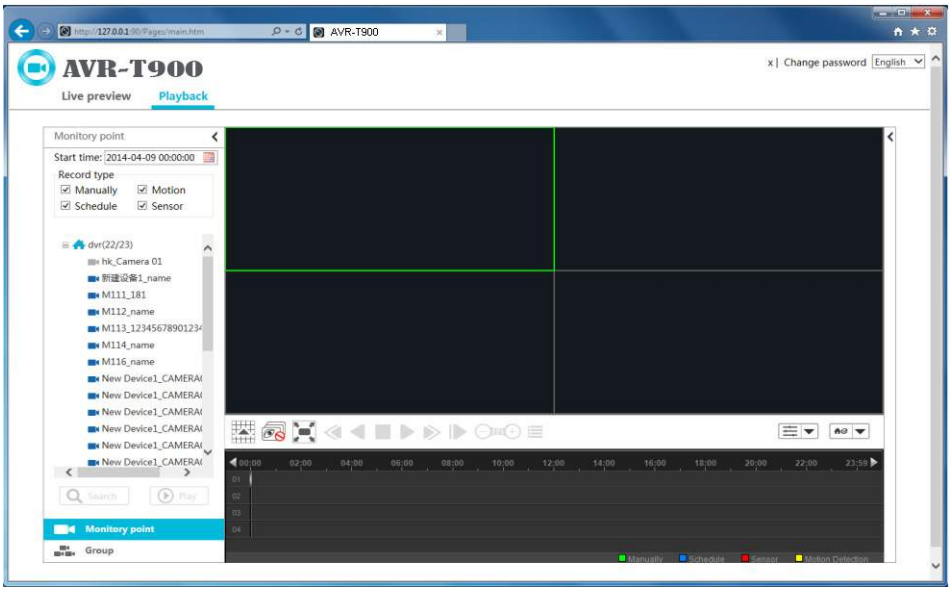
The functions of the buttons in the above right interface are as follows:

Button	Description
	stands for turning up; stands for turning right top; stands for turning right; stands for turning right down; stands for turning down; stands for turning left down; stands for turning left; stands for turning left up; stands for stopping turning.
	Slide the slider to adjust the rotate speed of PTZ
	Zoom button; Click button to zoom in channel figure; Click button to zoom out channel figure.
	Focus button; Click button to stretch the focus; Click button to cut the focus.
	Iris button; Click button to increase the light of PTZ; Click button to decrease the light of PTZ.
	Click it to start track
	Click it to start automatic scan function
	Click it to start the windshield wiper function
	Click it to start the light function
	Click it to view the preset point information
	Click it to view the cruise line information

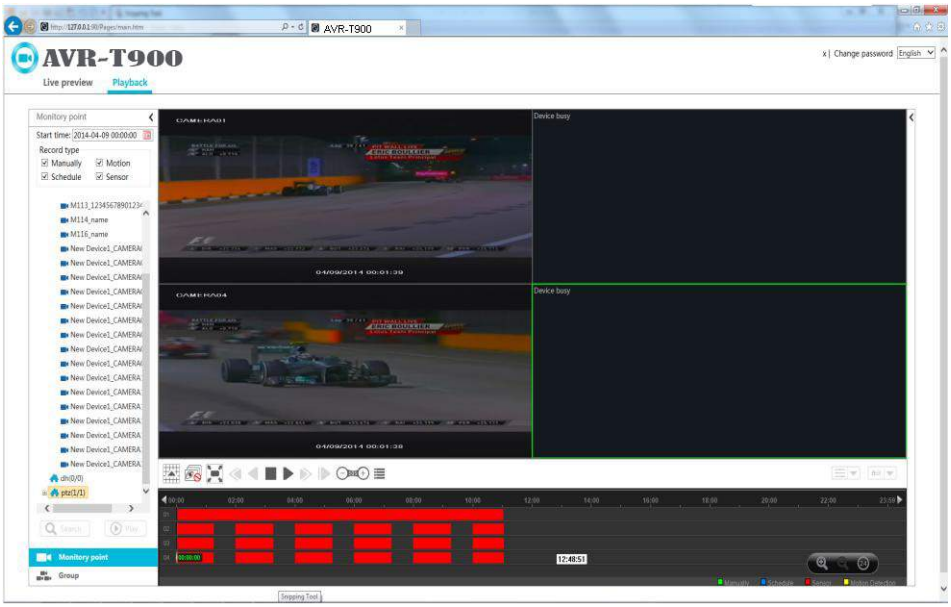
The other operation of live preview interface is the same with the

14.3 Record Playback

Click “Playback” on the left top of the interface to switch Live Preview interface to Playback interface.



Select the record start time, record type, then click the device you want to playback. If the record file exists, it will be played on the right window; you could also click Search button after you select the record start time and record type, then click Play button to play the record.



The function of the buttons in the Playback interface and video time section is as follows:

Button	Description
	Click it to show screen mode button
	Close playback of all channels
	Full Screen
	Retreat（Not support right now）
	Play backwards（Not support right now）
	Stop
	Pause
	Playback speed bar
	Playback by single frame. When playback, click button firstly and then click this button to play frame by frame.
	Forward 30s or backward 30s
	Event list. Click this button to pop up the event list
	Record playback model, synchronous or asynchronous
	Playback source setup, it can be set as local playback\remote playback\all playback.
	Click button to zoom in the proportion of time scale; Click button to zoom out the proportion of time scale; Click button to recover the proportion of time scale to 24 hours' proportion; When time scale has been zoomed in, user can view each time spot record by dragging the time line.

Click button on the right top of the record playback interface, a side window will be shown on the right. To know the functions of buttons in the side window, please refer to section 14.2.

The other operation of playback interface is the same with the AVR-T900 PC client; please refer to Chapter 8 Playback Management for details.